TEST AND MEASUREMENT

Selection Guide

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IDM100 & 200 Series Digital Multimeters

Our IDM 201N multimeter is a versatile and portable bench-type instrument. It is suitable for workshop and laboratory-based engineers and technicians, as well as field service engineers who require a self-powered instrument for maintenance, test or repair. The instrument can be powered from an AC mains supply between 90V and 263V or by internal batteries as required.

The IDM103N and IDM106N offer high specification performance with clear, 4000-count display and 42 segment bargraph, 10A continuous current and a host of other features in an affordable handheld instrument.

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Specifications / Ranges / Model		IDM201N	IDM103N	IDM106N
RS Stock No.		123-3219	123-3235	123-3236
Multimeter type		Bench	Handheld	Handheld
Supplied with		1 pair test leads (1 red, 1 black), instruction manual, 1 UK style mains power cable, 1 Type F - Schuko plug, 1 carrying strap and 1 pair of crocodile clips (1 red, 1 black)	Protective holster with probe storage, lead set, batteries and instruction manual	Protective holster with probe storage, lead set, batteries and instruction manual.
Current DC	Absolute maximum Resolution Accuracy	10A DC 0.1µA DC ±1% + 2 digits	10A DC 10µA DC ±0.6% + 2 digits	10A DC 10µA DC ±0.4% + 2 digits
Current AC	Absolute maximum Resolution Accuracy	10A AC 0.1µA AC ±1.5% + 5 digits	10A AC 1µA AC ±1.5% + 5 digits	10A AC 1µA AC ±1.5% + 5 digits
Voltage DC	Absolute maximum Resolution Accuracy	600V DC 100µV DC ±0.5% + 2 digits	1000V DC 100µV DC ±0.25% + 2 digits	1000V DC 100µV DC ±0.1% + 2 digits
Voltage AC	Absolute maximum Resolution Accuracy	600V AC 100µV AC ±1.5% + 5 digits	1000V AC 0.1mV AC ±1.3% + 5 digits	1000V AC 0.1mV AC ±1% + 5 digits
Temperature	Absolute maximum Accuracy	- -	- -	+800 °C, +1472 °F ±1 %
Functions measured		AC Current, AC Voltage, Capacitance, DC Current, DC Voltage, Frequency, Resistance	AC Current, AC Voltage, Capacitance, Continuity, DC Current, DC Voltage, Diode Test, Frequency, Peak Hold, Resistance, Temperature	AC Current, AC Voltage, Capacitance, Continuity, DC Current, DC Voltage, Diode Test, Frequency, Peak Hold, Resistance, Temperature
True RMS		Yes	-	Yes
Maximum Frequency		20MHz	40MHz	400MHz
Display Type		LCD	LCD	LCD
Dimensions (L x W x H)		195 × 218 × 73mm	100 × 55 × 212mm (with holster)	100 × 55 × 212mm (with holster)
Weight		1.3kg (Without Power Cord)	620g	620g
Safety Category		CAT II 600 V, CAT III 300 V	CAT II 1000 V, CAT III 600 V	CAT II 1000 V, CAT III 600 V
Safety Category Level		CAT II, CAT III	CAT II, CAT III	CAT II, CAT III
Safety Category Voltage		300 V, 600 V	600 V, 1000 V	600 V, 1000 V
Resistance	Absolute maximum Resolution Accuracy	20MΩ 100mΩ ±0.7% + 3 digits	40MΩ 100mΩ ±0.6% + 3 digits	40MΩ 100mΩ ±0.4% + 2 digits
Capacitance	Absolute maximum Resolution Accuracy	2mF 1pF ±1.9% + 8 digits	40mF 1pF ±2% + 8 digits	40mF 1pF ±2% + 8 digits
Operating Temperature		0°C - +50°C	0°C - +50°C	0°C - +50°C
Battery Life / Type		1200h / AM3, 1.5 V AA LR6	500h / AAA 1.5 V, AM4, IEC LR03	300h / IEC 6F22, JIS 006P, NEDA 1604, 9V

IDM60 Series Digital Multimeters

A range of compact digital multimeters that fit neatly in the palm of the hand for convenient, single-handed operation.

The IDM60 series offers excellent performance for tough industrial and electrical environments.

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Common Information

Features and Benefits
- AC/DC voltage
- Resistance/continuity and diode test
- Handy and compact housing
- Large-scale LCD display
- Data hold
- Auto power off

Standards
- Up to CAT III 600 V

Specifications / Ranges / Model		IDM61	IDM62T	IDM63N	IDM66RT	IDM67
RS Stock No.		123-3237	123-3238	123-3240	123-3253	123-3241
Multimeter type		Handheld	Handheld	Handheld	Handheld	Handheld
Supplied with		Test leads, 2 × AA alkaline batteries and instruction manual	Test leads, 2 × AA batteries, instruction manual, type K thermocouple adapter and type K bead sensor	Protective rubber holster, test lead set, 2 alkaline AAA batteries and instruction manual	2 × AAA batteries (installed), test leads, temperature probe and user manual	Holster, test lead set, 2 × AA batteries (installed) and instruction manual
Current DC	Absolute maximum Resolution Accuracy	-	10A DC 1mA DC ±1% + 3 digits	3mA DC 0.1µA DC ±1% + 2 digits	10A DC 0.001A DC ±1% + 2 digits	10A DC 0.1µA DC ±1.2% + 2 digits
Current AC	Absolute maximum Resolution Accuracy	-	10A AC 1mA AC ±1.5% + 5 digits	-	10A AC 0.001A AC ±1.5% + 5 digits	10A AC 0.1µA AC ±1.7% + 4 digits
Voltage DC	Absolute maximum Resolution Accuracy	1000V DC 0.1mV DC ±0.5% + 2 digits	1000V DC 0.1mV DC ±0.5% + 2 digits	600V DC 0.1mV DC ±0.5% + 2 digits	1000V DC 0.01mV DC ±0.5% + 2 digits	600V DC 0.1mV DC ±0.7% + 2 digits
Voltage AC	Absolute maximum Resolution Accuracy	750V AC 1mV AC ±1.5% + 5 digits	750V AC 1mV AC ±1.5% + 5 digits	600V AC 1mV AC ±1.5% + 5 digits	1000V AC 1mV AC ±1% + 5 digits	600V AC 1mV AC ±1.7% + 5 digits
Temperature	Absolute maximum Resolution Accuracy	-	+800 °C, +1472 °F 0.1 °C, 1 °F ±1 %	-	+400 °C, +752 °F 0.1 °C, 0.1 °F ±1 % + 10 digits	-
Functions measured		AC voltage, Continuity, DC voltage, Diode test, Resistance	AC current, AC voltage, Capacitance, Continuity, DC current, DC voltage, Diode test, Frequency, Resistance, Temperature	AC voltage, Continuity, DC current, DC voltage, Diode test, Resistance	AC current, AC voltage, Capacitance, DC current, DC voltage, Frequency, Resistance, Temperature	AC current, AC voltage, Continuity, DC current, DC voltage, Diode test, Resistance
True RMS		-	-	-	Yes	-
Maximum Frequency		-	20MHz	-	500Hz	-
Display Type		LCD	LCD	LCD	LCD	LCD
Dimensions (L x W x H)		74 × 44 × 156mm	74 × 44 × 156mm	80 × 36 × 165mm	74 × 44 × 156mm	85 × 40 × 165mm
Weight		250g	250g	310g	250g	360g
Safety Category		CAT II 1000 V, CAT III 600 V	CAT II 1000 V, CAT III 600 V	CAT III 600 V	CAT III 600 V	CAT II 600 V
Safety Category Level		CAT II, CAT III	CAT II, CAT III	CAT III	CAT III	CAT II
Safety Category Voltage		600 V, 1000 V	600 V, 1000 V	600V	600V	600V
Resistance	Absolute maximum Resolution Accuracy	20MΩ 100mΩ ±0.7% + 2 digits	20MΩ 100mΩ ±0.7% + 2 digits	30MΩ 100mΩ ±1% + 4 digits	40MΩ 100mΩ ±0.8% + 2 digits	30MΩ 100mΩ ±1.2% + 4 digits
Capacitance	Absolute maximum Resolution Accuracy	-	2mF 1pF ±1.9% + 8 digits	-	10mF 0.01nF ±1.9% + 8 digits	-
Operating Temperature		0°C - +50°C	0°C - +50°C	0°C - +50°C	-10°C - +50°C	0°C - +50°C
Battery Life / Type		250h / AAA 1.5 V, AM4, IEC LR03	250h / AAA 1.5 V, AM4, IEC LR03	1000h / AAA 1.5 V, AM4, IEC LR03	300h / AAA 1.5 V, AM4, IEC LR03	900h / AAA 1.5 V, AM4, IEC LR03

IDM70 Series Digital Multimeters

Compact and rugged high performing digital multimeters with optical interface for transmitting measuring results to PCs. Ideal for single-handed use.

Common Information

Features and Benefits
- Handy and compact housing
- Large-scale display
- 6000 display count
- DCA µA
- Data Hold
- Min / Max function
- Frequency counter
- Capacitance measurement
- Auto power off
- Shock resistant (1 m drop)
- Protective holster with tilt stand and lead storage

Supplied with
Test leads, protective holster, 2 × 1.5 V Alkaline type AAA batteries (installed).

Specifications / Ranges / Model		IDM71	IDM72	IDM73
RS Stock No.		123-3239	123-3242	123-3243
Multimeter type		Handheld	Handheld	Handheld
Current DC	Absolute maximum Resolution Accuracy	6mA DC - ±1% + 2 digits	10A DC 0.1µA DC ±1% + 2 digits	10A DC 0.1µA DC ±1% + 2 digits
Current AC	Absolute maximum Resolution Accuracy	6mA AC - ±1.5% + 5 digits	10A AC 0.1µA AC ±1.5% + 5 digits	10A AC 0.1µA AC ±1.5% + 5 digits
Voltage DC	Absolute maximum Resolution Accuracy	1000V DC - ±0.5% + 2 digits	1000V DC 0.1mV DC ±0.5% + 2 digits	1000V DC 0.1mV DC ±0.5% + 2 digits
Voltage AC	Absolute maximum Resolution Accuracy	750V AC - ±0.9% + 5 digits	750V AC 0.1mV AC ±0.9% + 5 digits	750V AC 0.1mV AC ±0.9% + 5 digits
True RMS		Yes	Yes	Yes
Maximum Frequency		60MHz	60MHz	60MHz
Display Type		LCD	LCD	LCD
Dimensions (L x W x H)		76 × 38 × 158mm (without holster), 82 × 44 × 164mm (with holster)	76 × 38 × 158mm (without holster), 82 × 44 × 164mm (with holster)	76 × 38 × 158mm (without holster), 82 × 44 × 164mm (with holster)
Weight		400g	400g	400g
Safety Category		CAT III 1000 V, CAT IV 600 V	CAT III 1000 V, CAT IV 600 V	CAT III 1000 V, CAT IV 600 V
Safety Category Level		CAT III, CAT IV	CAT III, CAT IV	CAT III, CAT IV
Safety Category Voltage		600 V, 1000 V	600 V, 1000 V	600 V, 1000 V
Resistance	Absolute maximum Resolution Accuracy	60MΩ - ±0.7% + 2 digits	60MΩ 100mΩ ±0.7% + 2 digits	60MΩ 100mΩ ±0.7% + 2 digits
Capacitance	Absolute maximum Resolution Accuracy	6mF - ±1.9% + 8 digits	6mF 1pF ±1.9% + 8 digits	6mF 1pF ±1.9% + 8 digits
Operating Temperature		+11°C - +50°C	0°C - +50°C	0°C - +50°C
Battery Life / Type		300h / AAA 1.5 V, AM4, IEC LR03	300h / IEC 6F22, NEDA 1604, 9V	300h / IEC 6F22, NEDA 1604, 9V

IDM90 Series Digital Multimeters

A superb range of rugged, easy to use industrial multimeters.

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Our IDM90 series offers features to suit most electrical and electronic applications.

Specifications / Ranges / Model		IDM91E	IDM93M	IDM98IV	IDM99IV
RS Stock No.		123-3244	123-3245	873-2360	873-2367
Multimeter type		Handheld	Handheld	Handheld	Handheld
Supplied with		Test lead set, fitted alkaline battery, protective holster and instruction manual	Test Lead set, fitted alkaline battery, protective holster and instruction manual	Battery installed, test lead set, user manual and protective holster	Battery installed, test lead set, user manual and protective holster
Current DC	Absolute maximum Resolution Accuracy	10A DC 0.1µA DC ±1% + 1 digits	10A DC 0.1µA DC ±1% + 1 digits	10A DC 0.01A DC ±1 %	10A DC 0.01A DC ±0.8 %
Current AC	Absolute maximum Resolution Accuracy	10A AC 0.1µA AC ±2.5% + 3 digits	10A AC 0.1µA AC ±2.5% + 3 digits	10A AC 0.01A AC ±1.5 %	10A AC 0.01A AC ±1.2 %
Voltage DC	Absolute maximum Resolution Accuracy	600V DC 0.1mV DC ±0.5% + 1 digits	600V DC 0.1mV DC ±0.5% + 1 digits	1000V DC 1V DC ±0.09 %	1000V DC 1V DC ±0.08 %
Voltage AC	Absolute maximum Resolution Accuracy	600V AC 0.1mV AC ±1.25% + 4 digits	600V AC 0.1mV AC ±1.3% + 4 digits	1000V AC 1V AC ±1 %	1000V AC 1V AC ±0.8 %
Temperature	Absolute maximum Resolution Accuracy	-	-	-	+400°C 0.1°C ±1 %
Functions measured		AC current, AC Voltage, Continuity, DC current, DC Voltage, Diode test, Resistance	AC current, AC Voltage, Continuity, DC current, DC Voltage, Diode test, Resistance	AC current, AC Voltage, Capacitance, DC current, DC Voltage, Resistance	AC current, AC Voltage, Capacitance, DC current, DC Voltage, Resistance, Temperature
True RMS		-	-	Yes	Yes
Maximum Frequency		-	200kHz	100kHz	100kHz
Display Type		LCD	LCD	LCD	LCD
Dimensions (L x W x H)		84 × 31 × 175mm (without holster), 95 × 50 × 192mm (with holster)	84 × 31 × 175mm (without holster), 95 × 50 × 192mm (with holster)	190 × 94 × 48mm	190 × 94 × 48mm
Weight			550g (with Holster)	460g	460g
Safety Category		CAT III 600 V	CAT II 600 V	CAT III 1000 V, CAT IV 600 V	CAT III 1000 V, CAT IV 600 V
Safety Category Level		CAT III	CAT II	CAT III, CAT IV	CAT III, CAT IV
Safety Category Voltage		600V	600V	600 V, 1000 V	600 V, 1000 V
Resistance	Absolute maximum Resolution Accuracy	20MΩ 100mΩ ±0.75% + 1 digits	20MΩ 100mΩ ±0.8% + 1 digits	40MΩ 0.1Ω ±0.8 %	40MΩ 0.1Ω ±0.8 %
Capacitance	Absolute maximum Resolution Accuracy	-	200µF 1pF ±2% + 4 digits	10mF 0.01mF ±1.2 %	10mF 0.01mF ±1.2 %
Operating Temperature		0°C - +50°C	0°C - +50°C	-10°C - +50°C	-10°C - +50°C
Battery Life / Type		300h / IEC 6F22, NEDA 1604, 9V	150h / AAA 1.5V x 2, AM4, IEC LR03, IEC6F22, NEDA 1604, 9V	180h / 1604A	180h / 1604A

IDM17 Probe Style Multimeter

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A slim, probe style multimeter which offers a clear, 3200-count LCD display with 65 segment bargraph and annunciators. In addition to an exceptional technical specification, this unique pen style multimeter offers a level of safety normally only found on larger hand held multimeters.

- Auto-ranging and manual selection
- Mains proof Ω/continuity ranges
- 600 V protection in every range
- Fast continuity beeper
- Standard AAA size batteries (fitted) with long battery life

- Auto power off & data hold function
- Rugged construction with high impact thermoplastic case
- Diode test
- Designed to meet IEC 1010-1
- CAT III 300 V, CAT II 600 V

Current DC	Absolute Max Resolution Accuracy	-
Current AC	Absolute Max Resolution Accuracy	100A AC 0.001mA AC ±1% + 3 digits
Voltage DC	Absolute Max Resolution Accuracy	600V DC - -
Voltage AC	Absolute Max Resolution Accuracy	600V AC - -

Maximum Frequency	-
Dimensions (L x W x H)	78 × 42 × 203mm
Weight	300g
Safety Category	CAT III 300 V
Safety Category Level	CAT III
Safety Category Voltage	300V
Operating Temperature	0°C - +50°C
Battery Life / Type	60h / AAA 1.5 V (IEC LR03)

IDM17 Probe Style Multimeter — **123-3246**

IDM5A Digital Wallet Multimeter

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All new, card-type digital multimeter. Specially designed for quick service application with thick test probe and quality carrying wallet. Smart designed full functions with simple operation help carry out regular tasks with greater efficiency.

- Multimeter with a 4000 count LCD display
- 8 functions / 30 ranges
- 600 V & μA AC-DC measurement ranges
- Integral non-contact AC voltage detector with visual & audible indication

- Resistance/Continuity & Diode test
- Capacitance, Frequency counter & duty cycle
- Manual /auto-ranging
- Auto power off & Data hold
- Conforms to EN61010-1
- CAT III 300 V, CAT II 600 V

Current DC	Absolute Max Resolution Accuracy	4mA DC 0.1μA DC ±0.9% + 5 digits
Current AC	Absolute Max Resolution Accuracy	4mA AC 0.1μA AC ±1.5% + 5 digits
Voltage DC	Absolute Max Resolution Accuracy	600V DC 0.1mV DC ±0.6% + 2 digits
Voltage AC	Absolute Max Resolution Accuracy	600V AC 0.1mV AC ±0.9% + 5 digits

Maximum Frequency		40kHz
Dimensions (L x W x H)		56 × 12 × 112mm
Weight		100g
Resistance	Absolute Max Resolution Accuracy	40MΩ 100mΩ ±0.9% + 2 digits
Capacitance	Absolute Max Resolution Accuracy	400μF 0.01nF ±2.9% + 5 digits
Operating Temperature		0°C - +50°C
Battery Life / Type		100 h / LR44 1.5 V

IDM5A Digital Wallet Multimeter — **123-3251**

IDM505 Digital Multimeter

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Designed for harsh environments, our IDM505 has a watertight gasket at the seams rotary switch, input terminal and battery cover to keep out dust, dirt and splashing. The protective holster includes built-in tilt stand, nail hook and convenient test lead storage.

- 100000/10000 Count XL display
- 43 segment analogue bar graph
- Auto backlit
- Auto AC, DC and AC+DC on voltage
- Current mode with Frequency indication
- Auto selection on Ohm, Diode or Continuity
- On-screen menu selection

- Navigator key drive
- High frequency rejection
- 0.015% DCV accuracy
- AC+DC true RMS indication
- 0.5ms peak hold, Auto hold
- Store/Recall memories
- dBm/dB measurement
- Optical USB interface

Current DC	Absolute Max Resolution Accuracy	10A DC 0.1μA ±0.1 % + 4 Digit
Current AC	Absolute Max Resolution Accuracy	10A AC 0.1μA ±0.7 % + 80 Digit
Voltage DC	Absolute Max Resolution Accuracy	1000V DC 0.001mV ±0.015 % + 20 Digit
Voltage AC	Absolute Max Resolution Accuracy	1000V AC 0.001mV ±0.4 % + 50 Digit
Maximum Frequency		4MHz

Temperature	Absolute Max Resolution Accuracy	+1200°C 0.1°C ±1 % + 1 °C
Dimensions (L x W x H)		95 × 51.2 × 200mm
Weight		620g (with holster)
Safety Category		CAT III 1000 V, CAT IV 600 V
Resistance	Absolute Max Resolution Accuracy	40MΩ 0.01Ω ±0.025 % + 30 Digit
Capacitance	Absolute Max Resolution Accuracy	40mF 0.01nF ±0.8 % + 2 Digit
Operating Temperature		0°C - +50°C

IDM505 Digital Multimeter — **124-1960**

Current Clamp Adaptors

The RS Pro range of current clamp adapters is designed for use with digital multimeters.

The adapter uses Hall effect sensors for measuring AC or DC current.

Specifications / Ranges / Model	ICA31	ICA39T	ICA15	ICA32N
RS Stock No.	123-3223	123-3224	123-8651	123-3226
Feature and Benefits	• AC 400 A capability • 1.9% basic D CA / A CA accuracy • Non-intrusive transducing • Up to 29mm diameter conductor • Shock Proof: 5 ft drop • Coiled cable output plugs • Ergonomically designed jaw and trigger • AC-DC 1000 A capability • Auto-zero key for DCA • Red LED - low battery indication • Green LED - power on indication • Insulated input jacks • Standard 9 V battery • Safety Standard: CAT IV 600 V / CAT III 1000 V • Type of sensing: Hall effect	• AC 400A capability • 1.9% basic DCA/ACA accuracy • Non-intrusive transducing • Up to 29 mm diameter conductor • Shock proof: 4 feet drop • Coiled cable output plugs • Ergonomically designed jaw and trigger • Type of sensing: Current transformer sensing • Designed to meet IEC 61010-1, CAT II 600 V / CAT III 300 V	• AC 300A capability • 1.9% basic ACA accuracy • Non-intrusive transducing • Up to 29 mm dia. conductor • Ergonomically designed jaw and trigger • Hand guard designed • CAT.II 600 V Safety standard • For use with RS Pro IDM17 123-3246	• Indicator warning if left switched on • Low battery warning indicator • Auto-power off after 15 minutes • Coiled output prevents tangled leads • Designed to meet BS EN1010-2-032 (safety standard) 300 V Cat III pollution degree 2
Adapter Type	AC	AC/DC	AC	AC/DC
Maximum AC Current	400A	1000A	300A	600A
Maximum DC Current	-	1000A	-	600A
Best Accuracy	±1.9% + 0.5 A	±1.9% + 7 A	±1.9 % + 5 digits	±2% + 2 A
Resolution	1 mV/A	1 mV/A	0.1 A	1 mV/A
Maximum Conductor Size	29mm	51mm	51 (Dia.)mm	34mm
Safety Category	Current, Voltage	CAT III 1000 V	CAT III 1000 V, CAT IV 600 V	CAT II 600 V
Connector Type	Test Lead	Test Lead	-	Test Lead
Battery Type	9V Alkaline	9V Alkaline	-	9V Alkaline
Battery Life	-	66 h	-	45 h
Operating Temperature Range	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C
Safety Category Voltage	600V	1000V	600 V, 1000 V	600V
Safety Category Level	CAT II	CAT III	CAT III, CAT IV	CAT II
Supplied with	Battery (installed), coiled cable output plugs, carrying case and user manual.	Carrying case and user manual	-	Coiled cable output plugs, carrying case and user manual

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Fused Test Lead Kits

This fused test lead kit offers a high degree of protection to the user when measuring on high energy circuits up to 1000V. Both red and black probes are fused to ensure the safety of the user.

Features and Benefits
- Straight or right angled plug
- 500 mA / 1000 V 50 kA fast acting high breaking capacity fuse
- Integral fuse holders
- Double insulated silicone cable incorporating wear indicator
- Thin fine insulated prods set 262-7770 for use with fused test prods and multimeter test lead sets are also available
- Shuttered lantern probe set 262-7786 for use with fused test prods and multimeter test lead sets are also available

Fused Probe Kit, Straight Plug, 1000 V	125-3732
Fused Test Lead Kit, Right Angled Plug	125-3731

Test Lead Sets

Fused Test Lead Set for Loop & RCD Testers

This auxiliary test lead is designed for use with a wide range of earth loop impedance and RCD testers. Both red and black probes are fused to enhance the safety of the user. A pair of shrouded safety crocodile clips is also available

Test Lead Kit with Crocodile Clips, 1000V

Pair of 1.2m silicone leads with integral test prods terminated with shrouded, right angled 4mm plugs. Supplied with a pair of handy push-fit crocodile clips.

Fused Test Lead Set for Loop & RCD Testers	125-3730
Test Lead Kit with Crocodile Clips, 1000 V	125-3733

Multimeter Fuse

Replacement fuses for RS Pro GS38 fused test leads and fused accessories. High breaking capacity (500mA with 50kA rupture current).

500mA Multimeter Fuse - Pack of 3	125-3741

Crocodile Clips

- For use with fused test leads and probes
- Measurement category: 1000V CAT III / 600V CAT IV.
- Rating: EN61010

Crocodile Clips	125-3740
Crocodile Clips (Long)	125-3738

Test Lead Accessories

A range of accessories with 4mm shrouded socket connections intended for use with the multimeter test lead set.

All accessories meet the requirements of EN61010 to their rated voltage.

Easy Access Back Probe Set of 4	124-7401	Back Probe with Cable Piercer Adapter	124-7405
Easy Access Back Probe Set, Black & Red	124-7402	Extra Sharp Long Reach Prod Set	124-7406
Extended Back Probe Set, Black & Red	124-7403	Fused Test Prods	125-3737
Right Angled Back Probe Lead Set	124-7404	Sprung Hook Grabbers	125-3739

Automotive Test Lead Kit

High-quality test lead kit designed for auto engineers.

Contents
- Red & black double insulated silicone test leads
- Red & black long reach probes
- Red & black fully insulated crocodile clip
- Red & black ultra thin back probes incorporating a cable piercing adapter
- Red & black extended back probes
- Red & black heavy-duty back probes

Specification
- Operating temperature range: -20°C to +70°C
- Current rating 10A

Note: Where applicable the kit component is marked with their relevant IEC 1010 (BS EN61010) ratings

RS Pro Automotive Test Kit	124-7400

ICM Series Clamp Meters

Utilising Hall effect technology, our ICM series benefits from nickel steel alloy jaws for precise measurement of AC and DC current up to 600A.

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Common Information

- 4000-count digital display
- Backlit, large-scale display
- Display hold
- Peak hold (10 Ms)
- Min/Max function
- Auto power off

Supplied with
Battery, test leads, carry case,user manual

Display Type
LCD

Specifications / Ranges / Model	ICM136R	ICM133R	ICM139R	ICM134	ICM135R
RS Stock No.	123-3222	123-3225	123-3227	123-3228	123-3229
Absolute Maximum AC Voltage Measurement	600V AC	750V AC	750V AC	750V AC	600V AC
Absolute Maximum AC Current Measurement	600A AC	1kA AC	1kA AC	600A AC	600A AC
Absolute Maximum DC Voltage Measurement	600V DC	1000V DC	1000V DC	1000V DC	600V DC
AC Voltage Measurement Resolution	100mV	100mV	100mV	-	100mV
DC Voltage Measurement Resolution	100mV DC	100mV DC	100mV DC	-	100mV DC
Best Resistance Measurement Accuracy	±1% + 3 digits	±1% + 3 digits	±1% + 3 digits	±0.7% + 2 digits	±1% + 3 digits
Absolute Maximum Resistance Measurement	400Ω	400Ω	400Ω	40Ω	400Ω
Best DC Voltage Accuracy	±0.7% + 2 digits	±0.7% + 2 digits	±0.7% + 2 digits	±0.9% + 2 digits	±0.7% + 2 digits
Best AC Voltage Accuracy	±1% + 5 digits	±1% + 5 digits	±1% + 5 digits	±1% + 5 digits	±1% + 5 digits
Best DC Current Accuracy	±1.9% + 5 digits	±1.9% + 5 digits	±1.9% + 5 digits	±1% + 2 digits	±1.9% + 5 digits
Best AC Current Accuracy	±1.9% +5 digits	±1.9% +5 digits	±1.9% +5 digits	±1.9% +5 digits	±1.9% +5 digits
Safety Category Voltage	600 V, 1000 V	600 V, 1000 V	600 V, 1000 V	600 V, 1000 V	600 V
Clamp Meter Type	Current, Voltage	Current, Voltage	Current, Voltage	Current Tester, Temperature, Voltage Tester	Current, Voltage
Jaw Capacity Busbars	45mm	53mm	53mm	32mm	37mm
Battery Life	300 h	300 h	300 h	200 h	300 h
Battery Type	IEC 6F22, NEDA 1604, 9V	IEC 6F22, NEDA 1604, 9V	IEC 6F22, NEDA 1604, 9V	9V Alkaline	IEC 6F22, NEDA 1604, 9V
Operating Temperature Range	0 - +50	0 - +50	0 - +50	0 - +50	0 - +50
Functions Measured	AC current, AC voltage, Continuity, DC current, DC voltage, Diode test, Frequency, Resistance	AC current, AC voltage, Continuity, DC voltage, Diode test, Frequency, Resistance	AC current, AC Voltage, Continuity, DC current, DC voltage, Diode test, Frequency, Resistance	AC current, AC voltage, Capacitance, Continuity, DC current, DC voltage, Diode test, Resistance, Temperature	AC current, AC voltage, Continuity, DC voltage, Diode test, Frequency, Resistance
Maximum Conductor Size	35mm (dia.)	51mm (dia.)	51mm (dia.)	32mm (dia.)	34mm (dia.)
Dimensions	78 × 51 × 235mm	90 × 51 × 275mm	90 × 51 × 275mm	84 × 40 × 212mm	76 × 50 × 220mm
Weight	380g	420g	420g	390g	360g
Safety Category	CAT II 1000 V, CAT III 600 V	CAT III 1000 V, CAT IV 600 V	CAT III 1000 V, CAT IV 600 V	CAT II 1000 V, CAT III 600 V	CAT III 600 V
Safety Category Level	CAT II, CAT III	CAT III, CAT IV	CAT III, CAT IV	CAT II, CAT III	CAT III

ICM 2000N & ICM 20 Clamp Meters

The ICM 2000N is a great value clamp meter which uses Hall effect technology for precise measurement of AC and DC current.

Common Information

- Large-scale LCD display
- AC current measuring up to 400 Amps
- Data hold
- Max hold
- Easy battery replacement

Supplied with
Battery, test leads, carry case, user manual

Display Type
LCD

Model	ICM2000N	ICM 20
Jaw Capacity Busbars	65 (Dia.) x 24 (W)mm	31mm
Clamp Meter Type	Power	Current tester
Absolute Maximum AC Current Measurement (A AC)	2.1k	400
Best AC Current Accuracy	±1.5 % ± 5 digits	±1.9% +5 digits
Maximum Conductor Size (mm)	55	27 (Dia.)
Battery Life (h)	-	200
Battery Type	IEC 6F22, NEDA 1604, 9V	IEC 6F22, NEDA 1604, 9V
Operating Temperature Range (°C)	0 - +40	0 - +50
Safety Category Voltage (V)	600	600
Dimensions (mm)	112 × 46 × 271	56 × 32 × 180
Weight (g)	647	250

ICM2000N Clamp Meter	123-2206
ICM20 Clamp Meter	123-3230

ICM3091N, ICM30R, ICM3311 Clamp Meters

Great value, auto-ranging AC clamp meters which feature a 3 digit LCD display and non-contact voltage detection. They benefit from true RMS reading in AC current and AC voltage measurements.

Digital AC and DC clamp meter with True-RMS reading, Dual hall sensor and a Nickel-Steel alloy jaw mechanism.

Common Information

- Data hold function
- Auto power off (30 minutes)
- Auto ranging
- Over-range indication ("OL")
- Low battery indication
- 30 minute auto power off

Supplied with:
Carry case, batteries, user manual, test lead

Model	ICM3091N	ICM33II	ICM30R
Absolute Maximum AC Voltage Measurement	600V AC	600V AC	600V AC
Absolute Maximum Resistance Measurement	400Ω	-	600V DC
Absolute Maximum DC Current Measurement	600V DC	-	300A DC
Absolute Maximum AC Current Measurement	400A AC	600A AC	300A AC
Best DC Voltage Accuracy	±1 % + 5 digits	-	+ 5 digits; ±0.5%
Best AC Voltage Accuracy	±1.5 % + 10 digits	±1.2% + 3 digits	+ 5 digits; ±2%
Best Resistance Measurement Accuracy	±1 % + 5 digits	±1.5% + 2 digits	+ 5 digits; ±2.5%
Absolute Maximum Resistance Measurement	400Ω	2kΩ	40MΩ
Battery Type	AA	IEC 6F22, NEDA 1604, 9V	AAA
Operating Temperature Range	0 - +40	0 - +50	0 - +50
Safety Category Level	-	CAT II, CAT III	CAT III
Dimensions	64 × 31 × 192mm	76 × 41 × 200mm	192 × 66 × 27mm
Weight	250g	360g	205g

ICM3091N Clamp Meter	123-2242
ICM33II Clamp Meter	123-3231
ICM30R Clamp Meter	123-3252

ICM Series Clamp Meters

Great value, fully automatic intelligent testers that select the measuring function dependent on input terminal and current clamp conditions. No range selection is necessary. The clamp meter measures AC voltage, DC voltage, resistance and AC current.

RS CAL **UKAS - ILAC**

Common Information

- Innovative open jaw technology
- Continuity bleeper
- Display hold function
- Auto power off
- Detachable leads to allow replacement or connection of fused test leads
- Continuity and Diode test

Supplied with
Battery, test leads, carry case, user manual

Display Type
LCD

Specifications / Ranges / Model	ICMA5	ICMA7-4	ICMA6	ICMA1	ICMA9
RS Stock No.	123-3232	123-3233	123-3234	123-3256	124-1957
Absolute Maximum AC Voltage Measurement	750V AC	600V AC	750V AC	-	600V AC
Absolute Maximum AC Current Measurement	200A AC	200A AC	600A AC	300A AC	400A AC
Absolute Maximum DC Voltage Measurement	1000V DC	600V DC	999.9V DC	-	600V DC
Absolute Maximum Resistance Measurement	2kΩ	2kΩ	2kΩ	-	2kΩ
Best Resistance Measurement Accuracy	±1% + 2 digits	±1% + 2 digits	±2% + 2 digits	-	±2% + 2 digits
Best DC Voltage Accuracy	±1% + 2 digits	-	±1% + 2 digits	-	±1 % + 4 digits
Best AC Voltage Accuracy	±1.5% + 3 digits	±1.5% + 3 digits	±1.5% + 3 digits	-	±1.5% + 3 digits
Best AC Current Accuracy	±3% +3 digits	±3% +3 digits	±2 %	±2.5% +5 digits	±1.8 % + 3 digits
Clamp Meter Type	Current, Voltage	Current, Voltage	Current, Voltage	Current, Voltage	Continuity, Current, Diode, Resistance, Voltage
Jaw Capacity Busbars	16mm (Dia.)	16mm (Dia.)	38mm (Dia.)	-	35mm
Battery Life	250h	250h	250h	20h	250h
Battery Type	IEC 6F22, NEDA 1604, 9V	IEC 6F22, NEDA 1604, 9V	IEC 6F22, NEDA 1604, 9V	A76, LR44	9 V Alkaline (NEDA 1604 or IEC 6F22)
Operating Temperature Range	-20 - +50	-20 - +50	-20 - +50	0 - +50	0 - +50
Safety Category Voltage	600 V, 1000 V	600V	600 V, 1000 V	600V	600 V, 1000 V
Safety Category	CAT III 1000 V, CAT IV 600 V	CAT III 600 V	CAT II 1000 V, CAT III 600 V	CAT III 600 V	CAT II 1000 V, CAT III 600 V
Safety Category Level	CAT III, CAT IV	CAT III	CAT II, CAT III	CAT III	CAT II, CAT III
Dimensions	66 × 46 × 198mm	84 × 31 × 175mm	83 × 48 × 200mm	60 × 31 × 147mm	66 × 46 × 198mm
Weight	280g	280g	375g	140g	260g
Functions Measured	AC current, AC voltage, Continuity, DC voltage, Diode test, Resistance	AC current, AC voltage, Continuity, DC voltage, Diode test, Resistance	AC current, AC voltage, Continuity, DC voltage, Diode test, Resistance	AC current, DC current, Inrush current, Low pass filter	AC current, AC voltage, DC voltage, Resistance

IPM Series Clamp Meters

Our IPM power clamp meters from the RS Pro range are ideal instruments to extend the AC current measuring range of ISO-TECH and RS PRO clamp meters.

Common Information

- Capacitance capability
- °C / °F temperature function
- Inrush current
- DCA auto-zeroing key
- Peak hold
- Min/Max hold
- Smart data hold
- Phase rotation indication
- Low pass filter
- Auto power off

Supplied with
Battery, test leads, carry case,user manual

Display Type
LCD

True RMS
Yes

Specifications / Ranges / Model	IPM6600	IPM3000N	IPM243F	IPM138N	IPM245F
RS Stock No.	123-2208	123-2241	123-3257	123-3258	124-1963
Absolute Maximum AC Voltage Measurement	600V AC	600V AC	1000V AC	1000V AC	1000V AC
Absolute Maximum Resistance Measurement	-	999.9kΩ	100kΩ	20kΩ	100kΩ
Absolute Maximum DC Current Measurement	2kA DC	-	600A DC	600A DC	1kA DC
Absolute Maximum AC Current Measurement	2kA AC	999.9A AC	600A AC	600A AC	1kA AC
Absolute Maximum DC Voltage Measurement	800V DC	600V DC	1000V DC	1000V DC	1000V DC
Best Resistance Measurement Accuracy	-	1 % ± 10 digits	±1% + 3 digits	±1% + 5 digits	±1 % + 3 digits
Best Temperature Measurement Accuracy		1 % ± 1 °C, 1 % ± 2 °F	-	±1 %	±1 % + 1 °C
AC Voltage Measurement Resolution	0.1V	0.1mV	0.01V	10mV	0.01V
DC Voltage Measurement Resolution	0.1V	0.1mV	0.01V DC	10mV DC	0.01V
DC Current Measurement Resolution	0.1A	-	0.01A	0.1A	0.01A
AC Current Measurement Resolution	0.1A	10mA	0.01A	0.1A	0.01A
Resistance Measurement Resolution	-	100mΩ	0.01Ω	0.1Ω	0.01Ω
Operating Temperature Range	+4 - +50	-	0 - +50	0 - +50	0 - +50
Clamp Meter Type	Power	Power	Current, Voltage	Current tester, Temperature, Voltage tester	Current, Diode, Resistance, Voltage
Jaw Capacity Busbars	65 (Dia.) x 24 (W)mm	-	45 × 10mm	45mm (Jaw Opening)	62 × 12mm
Battery Life	-	-	100h	50h	100h
Battery Type	9V	-	IEC 6LF22, NEDA 1604A, 9V	IEC 6F22, NEDA 1604, 9V	9 V Alkaline (NEDA 1604 or IEC 6F22)
Safety Category Voltage	600V	-	600 V, 1000 V	600 V, 1000 V	600 V, 1000 V
Maximum Conductor Size	55mm	-	37 (Dia.)mm	35 (Dia.)mm	42mm
Safety Category	CAT III 600 V	-	CAT III 1000 V, CAT IV 600 V	CAT II 1000 V, CAT III 600 V	CAT III 1000 V, CAT IV 600 V
Safety Category Level	CAT III	-	CAT III, CAT IV	CAT II, CAT III	CAT III, CAT IV
Dimensions	112 × 46 × 271mm	-	87.5 × 50.5 × 242mm	78 × 51 × 235mm	87.5 × 50.5 × 257mm
Weight	647g	-	435g	380g	470 (with Battery)g
Functions Measured	AC current, AC voltage, DC current, DC voltage, Frequency, Power	AC current, AC voltage, Capacitance, DC voltage, Frequency, Power, Resistance, Temperature	AC current, AC voltage, Capacitance, Continuity, DC current, DC voltage, Diode test, Frequency, Harmonic, Power factor, Resistance, Total harmonic Distortion, Wattage	AC current, AC voltage, Continuity, DC current, DC voltage, Diode Test, Frequency, Power factor, Resistance, Temperature, Total harmonic distortion, Wattage	AC current, AC voltage, Capacitance, Continuity, DC current, DC voltage, Diode, Frequency, harmonics, Power, Power factor, Resistance, Temperature, Total harmonic Distortion

IEK10N Digital Multimeter & Clamp

RS CAL **UKAS - ILAC**

- 300A AC non-intrusive current measuring
- Voltage measurement to 600 V AC/DC
- Ohms ranges from 300Ω → 30MΩ
- 65 segment analogue bar graph
- Mains proof ohms ranges
- Auto power off
- Fast continuity beeper
- Diode test capability
- Data hold function to freeze display

Size & Weight:
145 × 42 × 24mm: 112g

Supplied with:
IDM17 probe multimeter with 2×AAA alkaline batteries fitted, ICA15 current adapter, test lead set, instruction manual and soft carry case

Maximum Voltage Measurement	600V
Maximum AC Current Measurement	300A
Operating Temperature Range	0 - +50
Safety Category	CAT II 600 V, CAT III 300 V

IEK10N Digital Multimeter & Clamp	124-1958

ILCM06R Clamp Meter

RS CAL **UKAS - ILAC**

- True RMS
- 6000 Count large-scale digital display
- Analog bar graph
- AC 100.0 Amps capability
- AC 0.001mA resolution
- Auto ranging
- Auto hold
- Data hold
- Peak hold
- Comparator

Size:
78 × 42 × 203mm: 300g

Supplied with:
Clamp Meter, carrying case, alkaline battery (installed) and user manual

Maximum AC Current Measurement	100A AC
Best AC Current Accuracy	±1 % 8 digits
Operating Temperature Range	0 - +50
Safety Category	CAT III 300 V

ILCM06R Clamp Meter	136-7823

IVP-1 Non Contact Voltage Detector

RS CAL

- Tip glows red and the audible sounder activates when a voltage is detected
- Locates breaks in cables
- Detects blown fuses inside plugs or fuse holders
- Distinguishes between live and neutral wires in both single and 3-phase supplies
- Identifies voltage-carrying cables in junction boxes
- Identifies faulty inline switches
- Locates faulty lamps in series connections
- Complies with IEC 61010-1 CAT IV 1000 V

Size & Weight:
152 × 22 × 18mm: 40g

Supplied with:
2 × AAA batteries & instructions

Maximum Detection Voltage	1000V AC
Safety Category Voltage	1000V
Operating Temperature Range	0 - +40
Safety Category Level	CAT IV

IVP-1 Non Contact Voltage Detector	123-3247

IVT10, IVT20 Voltage Testers

RS CAL

These compact, two-pole voltage and continuity testers benefit from being rugged and easy to use.

Common Information

- 2 pole test with LED indication
- 12 V to 750 V AC/DC voltage indication range
- Integrated single pole test for phase detection
- Rotary field indication
- Continuity beeper
- Ultra bright white LED torch

Supplied with:
Batteries and manual

Model	IVT10	IVT20
Maximum Voltage	750V AC/DC	750V AC/DC
Safety Category	CAT III 750 V, CAT IV 600 V	CAT III 750 V, CAT IV 600 V
Safety Category Level	CAT III, CAT IV	CAT III, CAT IV
Safety Category Voltage	600V AC/DC, 750V AC/DC	600V AC/DC, 750V AC/DC
Operating Temperature Range	0 - +50	0 - +50
Dimensions	68 × 29 × 239mm	68 × 29 × 239mm
Weight	230g	240g

IVT10 Voltage Testers	124-1961
IVT20 Voltage Testers	124-1962

CC421-G Current & Voltage Calibrator

RS CAL

An RS Pro Portable instrument for calibrating process devices and measuring process signals. The quality and accuracy of the hand-held calibrator are covered by the four functions; current source, current measurement, power and measurement of a two wire loop and DC mV source.

Features and Benefits

• Portable instrument for calibrating process devices and measuring process signals

• Power and measurement of a two-wire current loop

• Adjustable 0-24mA current source

• Adjustable -199.9 to +1.99.9mV DC voltage source

• Current calibrator drive loads up to 500Ω

• LCD display, max. display counts 1999

Size & Weight:
L: 78, W: 38, H: 185mm, 265g

Battery Type:
Alkaline, Heavy Duty, M1605/PP3, 9V

Operating Temperature Range (°C)	0 - +50
Voltage Range (mV)	-199.9 - +1.99.9
Source Current Range (mA)	0 - 24
Best Accuracy	±0.25 % + 1 Digit

CC421-G Current & Voltage Calibrator	123-8769

CC-MA Multi Function Calibrator

RS CAL

CC-MA is a great value, easy-to-operate, compact, lightweight, pocket size current simulator with 3 preset outputs. The instrument can be operated using one hand. Bright red LEDs indicate the simulation range.

Features and Benefits

• Preset outputs 4, 12 and 20mA

• Accuracy ±0.2mA

• Low battery indication

• Overload indicator when the output current delivered is less than the set level

Areas of Application:
General purpose signal injection
Process control
Re-calibrating process indicators and controllers
Setting up engineering units

Power Source:
PP3 battery (not supplied)

Supplied with:
Test lead terminated with spade lugs, user manual

Operating Temperature Range (°C)	0 - +50
Maximum Current Measurement (mA)	20
Battery Life (Hours)	10
Battery Type	9V

CC-MA Multi Function Calibrator	123-8778

GHT113 Insulation Test Pistol

Insulation test pistol supplied with a 2 meter length of connecting cable and plug. The tester conforms to CE in accordance with EN 50191.

- Housing made of unbreakable plastic
- Connection via highly flexible safety cable
- Wear-proof tungsten test prod
- Teflon guard ring against wear
- High voltage proof connection plug

Operating Voltage (kV DC)	10
Maximum Operating Voltage (kV AC)	8
Test Voltage (kV DC)	21

GHT113 Insulation Test Pistol	917-6301

IIT1500 Insulation Tester

- 4000-count LCD display with analogue bargraph
- Test voltages: 50V, 100V, 250V, 500V & 1000V
- Polarisation Index (PI) and Dielectric Absorption Ratio (DAR) measurements for accurate measurement of insulation quality

- Fuse test
- CAT IV 600V safety rating
- 600 V AC/DC voltage measurement range
- Store/Recall memory & compare (Pass/Fail) function
- Includes remote test probe for fast testing

RS CAL   **UKAS - ILAC**

Size & Weight:
95 × 51.2 × 200mm: 630g

Power Source:
AA Alkaline battery

Supplied with:
Test-lead set, crocodile clips, remote test probe, rubber holster, tester hanging kit, 4 AA alkaline batteries and instruction manual

Tester Type	Insulation multimeter
Test Voltage Range (V)	50 - 1000
Operating Temperature Range (°C)	0 - +50
Battery Life (h)	1100
Safety Category	CAT IV 600 V

IIT1500 Insulation Tester	123-3220

IIT2000 Series Electrical Safety Tester

The IIT2000 series is built upon a platform of AC 500VA maximum power output. The high efficiency PWM amplifier is the core of IIT2000 platform, designed to impede the influence from the voltage fluctuation of input AC source. Output voltage is automatically cut off (within 150 us) upon the detection of an abnormal output voltage or a trip of current limits during test.

The IIT2000 series automatically discharges the DUT after each test to eliminate excessive voltage that remains on the DUT.

Common Information

- 500VA AC Test Capacity
- 240 × 64 ice blue dot-matrix LCD
- Sweep function for DUT characteristic analysis
- Insulation resistance measurement up to 50GΩ (GPT-9903/9904)
- Manual / Auto mode
- Function key for quick selection
- High intensity flash for caution & status indication
- Safety interlock function
- Zero crossing turn-on operation
- Controllable ramp-up time
- True RMS current measurement
- High resolution: 1µA or measuring current, 2 V for setting voltage
- PWM amplifier to enhance the power efficiency and reliable testing

Model	IIT2000	IIT2010
Max Insulation Resistance Measurement (M)	9500	9500
Test Voltage range (V)	50 - 1000	50 - 1000
Operating Temperature Range (°C)	0 - +40	0 - +40
Test Capacity (VA)	500	500
Power Source	Mains	Mains
Size	460 × 330 × 150mm	460 × 330 × 150mm
Display Type	LCD - Dot Matrix	LCD - Dot Matrix
Weight (kg)	15	19
Category	Insulation testers	Insulation testers

IIT2000 Insulation Tester	917-6298
IIT2010 Insulation Tester	917-6308

IPM3000 Series
Power Quality Analyser

RS CAL

Great value balanced 3-phase and single phase power quality tester with flexible probe and data logging functions. It is designed for measuring and diagnosing power problems in electrical installations and power circuits.

An optically isolated USB lead and analysis software enable readings to be displayed and/or downloaded for analysis on a PC or laptop.

IPM3005

IPM3600N

Common Information

Features and Benefits:
Non-interrupted harmonic analysis (V and A) to the 50th order in % and magnitude

Dual display with fast Peak Hold, Max and Min functions

Selectable CT ratios from 1 to 1000

Data logging to internal memory for up to 8000 readings with programmable logging interval

Selectable Auto power-off up to 30 minutes

Size: IPM3600N 116 × 54 × 235mm

Areas of Application:
Electrical installations, power circuits

Model	IPM3005	IPM3600N
Maximum Frequency (Hz)	50, 65	60
Maximum Voltage (V)	600	999.9
Maximum Current Measurement (A)	3000	999.9
Maximum Power Measurement (kW)	9999	999.9
Operating Temperature Range (°C)	-	0 - +50
Interface Type	-	USB
Display Type	LCD	LCD
Cursors and Measurement		
Measurement Type	AC current, AC voltage, AC wattage, Harmonic, Total harmonic distortion	AC current, AC voltage, AC wattage, Frequency, Harmonic, Phase angle, Power energy, Power factor, Three phase frequency detection
Best Voltage Measurement Accuracy	±0.5 % ± 5 digits	±0.3 % ± 10 digits

IPM3005 Power Quality Analyser	123-2200
IPM3600N Power Quality Analyser	123-2244

IPM6000 Series
Power Quality Analyser

RS CAL

Great value, single phase and balanced 3 phase graphical power quality analyser. It incorporates data logging functions for analysis and diagnosis of power quality and power disturbance issues in electrical installations and power circuits.

Optically isolated USB connection lead and analysis software (supplied) enables readings to be displayed and recorded data to be downloaded, controlled and analysed on a PC or laptop computer.

IPM6200

IPM6300

Common Information

Power Source:
Battery

Maximum Power Measurement:
9999kW

Size: IPM6200 62 × 35.6 × 210mm
IPM6300 80 × 43 × 130mm

Battery Type: 1.5 V

Weight: IPM6200 640g
IPM6300 450g

Display Type: LCD

Model	IPM6200	IPM6300
Maximum Frequency (Hz)	50, 60	65
Maximum Voltage (V)	600	600
Maximum Current Measurement (A)	1500	3000
Operating Temperature Range (°C)	-10 - +50	-10 - +50
Cursors and Measurement		
Measurement Type	AC current, AC voltage, AC wattage, Harmonic, Phase angle, Power factor, Total harmonic distortion	AC current, AC voltage, AC wattage, Crest Factor, Harmonic, Phase angle, Power factor, Total harmonic distortion
Best Voltage Measurement Accuracy	±0.5 % ± 5 digits	±0.5 % ± 5 digits

IPM6200 Power Quality Analyser	123-2207
IPM6300 Power Quality Analyser	123-2201

Video, Data & Voice Wiring Tester

- Shows cable connection status by testing both ends
- Identifies open and connected circuits or crossed wires.
- Can test the most up-to-date IT data cables.
- Manual or automatic scan.
- Rectangular LED display.

- DB 9 (M/F), DB 25 (M/F), HDB 15 (M/F), Centronics 36 pts (F), BNC and RJ45
- Supply via PP3 battery or 9 VDC supply. jack output (not supplied).
- Applications: data cable wiring workshops, retailers.

Size & Weight:
147.5 × 249 × 42mm: 685g

Power Source:
9V Battery or 9V DC supply (not supplied).

Test Types:
Miswire, Open circuit, Short circuit

Cable Types	C36, DB15, DB25, DB9, HDB15, RJ45
Minimum Operating Temperature	0°C to +50°C
Display	LED
Power Source	Battery, Mains

Assembled cable tester	410-8524

RJ45/RJ11 Continuity Tester

Conveniently checks the continuity of screened/unscreened telephone and computer link cabling systems (up to 1000ft/0.3km).

The tester accommodates RJ11/RJ45, and DEC type plug interfaces. An immediate, simple, visual LED indication is provided of line continuity, by depressing a conveniently located push-button switch to initiate a test cycle.

Power Source:
9V Battery

Tests for:
Open, shorted, crossed, reversed, transposed, split, non-pair wiring

Test Types:
Cable continuity, Miswire, Open circuit, Short circuit

Cable Types	Coaxial, STP, UTP
Port interface	RJ11, RJ45 or DEC
I/O current	5mA (max.)
Position access time	1 second
Power consumption	35mW

RJ45/RJ11 Continuity tester	233-8919

TES-48 LAN Cable Tester

- Rugged, battery operated, handheld LAN tester to identify cable failures
- UTP, FTP & coax cabling tests
- Category 5 cabling
- End to end EIA/TIA 568 verification
- Distance to fault location

- Measures cabling length
- Easy to read LCD display
- Auto power off
- Identifies up to 8 different cables with cable identifiers (available seperately)
- Can be used for cables between 1m and 350m

Size & Weight:
150 × 72 × 35mm: Approx. 215g

Power Source:
6 pcs 1.5V size AAA battery.

Supplied with
Instruction manual, Carry case, 1 x FTP Category 5 patch cable, 1 x RJ45F – RJ45F female coupler

Faults Status	Opens, Shorts, Reversed, Crossed, Split Pair.
Display	Large LCD display
Connector	RJ45 and BNC
Data Memory Capacity	99 sets
Operating Temperature Range	0°C to +40°C

TES-48 Cable Tester	462-9267
Cable Identifier for use with TES-48	425-0798

TES45 Cable Tester

Easy to use slim-line, handheld LAN cabling verifier with complete wire test mapping of unshielded twisted pair cables

Dimentions: 170 × 52 × 38mm

Tests: Crossed, Open, Reversed, Shorted, Split Wires

Cable Type	UTP
Display Type	LCD
Maximum Cable Length	150m
Maximum Cables	4
Battery	9V
Temperature Range	0°C to +50°C

TES-48 Cable Tester	462-9267

RS-232 PockeTester

Monitors the seven most important async EIA-574 (RS-232 on a DB-9) data and control lines.

Dimentions: 114 × 76 × 19mm

Weight: 27g

Connectors	B9 Male and Female
Cable Type	Serial DB9
Test Type	Data
Tone	No
Display Type	LED

RS-232 PockeTester	624-0647

IDS6000 Series
Digital Storage Oscilloscopes

Two digital storage oscilloscopes in the IDS6000 series offer 50 and 100Hz bandwidth options.

IDS6052U 50Hz is designed to optimise balance of performance between memory length and sampling speed. Features include user-friendly menu tree operations, compact size, ergonomic design, USB host for PC connectivity and USB device port support.

IDS6102AU 100Hz provides complete remote control or data capture over a USB interface. It supports PictBridge which, connected to a compatible printer with a USB cable, facilitates push-button printing. Its MemoryPrime technology allows 2Mpts of waveform data.

Common Information

Features and Benefits
- 50MHz and 100MHz bandwidth with 2 input channels
- Mains power source
- 250MSa/s real-time and 25 GSa/s equivalent-time sampling
- 5.7 inch TFT colour LCD display
- Up to 27 Auto measurements
- USB port for PC connection
- Data logger
- Dimensions 310 × 142 × 140mm
- Weight approximately 2.5kg

Supplied with
- User manual, power cord, 70MHz switchable passive probe (1 per channel)

Spec. / Ranges / Model		IDS6052U	IDS6102AU
RS Stock No.		123-3538	123-3539
Bandwidth		50MHz	100MHz
Time Base	Minimum Maximum	1ns/div, 50 (ROLL) ms/div 50s/div	1 ns/div, 50 (ROLL) ms/div 50s/div
Vertical Sensitivity	Minimum Maximum	2mV/div 10V/div	2mV/div 10V/div
Rise Time		<7ns	<3.5ns
Operating Temperature		0°C - +50°C	0°C - +50°C
Safety Category		CAT II 300V AC/DC	CAT II 300V AC/DC
Safety Category Level		CAT II	CAT II
Safety Category Voltage		300V AC/DC	300V AC/DC
Sample Rate Random		25 (Equivalent Time Sampling) G samples/s, 250 (Real Time Sampling) M samples/s	25 (Equivalent Time Sampling) G samples/s, 250 (Real Time Sampling) M samples/s
Record Length		4k points/ch	4k points/ch
USB Interface		Yes	Yes
Vertical Resolution		8 bit	8 bit
Plug Type		UK	UK

IDS6000A-U Series
Digital Storage Oscilloscopes

Provides complete remote control or data capture over a USB interface.

MemoryPrime technology allows 2 Mpts of waveform data. Full advantage of this capacity can be taken using Horizontal Page Skip and Set Time functionalities. Auto measurement is enhanced with a built-in Autoset function and Cursor Gating feature.

Common Information

Features and Benefits
- 70/150MHz bandwidth
- 1GSa/s real-time sample rates maximum, 25GSa/s equivalent-time
- 2Mpts record length
- 2mV - 10V vertical scale
- 1ns - 50s horizontal range
- Up to 27 Automatic measurements
- 5.7 inch TFT LCD Display
- USB host and device interface supported
- Go/NoGo function
- Data logger
- Dimensions 310 × 142 × 140mm
- Weight approximately 2.5kg

Supplied with
- User manual, power cord, 100MHz switchable passive probe (1/channel)

Spec. / Ranges / Model	IDS6072AU	IDS6152AU
RS Stock No.	124-0229	124-0230
Number of Channels	2	2
Bandwidth	70MHz	150MHz
Oscilloscope Type	Digital Storage	Digital Storage
Power Source	Mains	Mains
Display Type	TFT LCD	TFT LCD
Vertical Sensitivity	2mV/div - 10V/div	2mV/div - 10V/div
Time Base	1ns/div - 50s/div	1ns/div - 50s/div
Screen Size	5.7in	5.7in
Sample Rate Random	1 (Real Time) G samples/s, 25 (Equivalent) G samples/s	1 (Real Time) G samples/s, 25 (Equivalent) G samples/s
USB Interface	Yes	Yes
Record Length	2M points/ch	2M points/ch
Vertical Resolution	8 bit	8 bit
Dimensions (L x W x H)	310 × 140 × 142mm	310 × 140 × 142mm
Safety Category	CAT II 300V AC/DC	CAT II 300V AC/DC
Safety Category Level	CAT II	CAT II
Weight	2.5kg	2.5kg

IDS1000B Series
Visual Persistence Oscilloscopes

RS CAL

UKAS - ILAC

RS Pro IDS1000B Series digital storage oscilloscopes are general purpose instruments which include exceptional features for a great-value price.

They are equipped with Visual Persistence Oscilloscope (VPO) technology which uses a high-density IC for hardware acceleration to transfer all the acquired data into the displayed waveform image. The 256 colour gradient display function shows waveform details in gradients while measuring fast-changing analog signals.

Trigger types include Edge, Pulse, Width, Video, ALT, Runt, Rise & Fall, Event-Delay, Time-Delay, Timeout, Logic, RS-232, 12C, SPI. All this comes in a compact (380 x 208 × 127.3 mm) casing designed for portability and comfort-in-use.

Common Information

Features and Benefits
- 1GSa/s maximum sampling rate
- 10M maximum memory depth for each channel
- 7 inch 800 × 480 WVGA LCD display
- 256 colour gradient display function to strengthen waveform performance
- 1Mpts FFT frequency domain signal display
- Zero key function for horizontal time, vertical voltage and triggering
- Compact and innovative design

Supplied with
- Passive probe, power cord, user manual, OpenWave software (free download), USB & LabView drivers (free downloads)

Spec. / Ranges / Model		IDS1054B	IDS1072B	IDS1102B	IDS1104B	IDS1074B
RS Stock No.		123-3540	123-3541	123-3542	123-3543	123-3544
Number of Channels		4	4	2	4	4
Bandwidth		50MHz	70MHz	100MHz	100MHz	70MHz
Oscilloscope Type		Digital Storage	Digital Storage	Digital Storage	Digital Storage	Digital Storage
Power Source		Mains	Mains	Mains	Mains	Mains
Display Type		TFT LCD	TFT LCD	TFT LCD	TFT LCD	TFT LCD
Vertical Sensitivity	Minimum Maximum	1mV/div 10V/div	1mV/div 10V/div	1mV/div 10V/div	1mV/div 10V/div	1mV/div 10V/div
Time Base	Minimum Maximum	5ns/div 100s/div	5ns/div 100s/div	5ns/div 100s/div	5ns/div 100s/div	5ns/div 100s/div
Screen Size		7in	7in	7in	7in	7in
Sample Rate Random		1 G samples/s	1 G samples/s	1 G samples/s	1 G samples/s	1 G samples/s
USB Interface		Yes	Yes	Yes	Yes	Yes
Record Length		10M points	10M points	10M points	10M points	10M points
Vertical Resolution		8 bit	8 bit	8 bit	8 bit	8 bit
Dimensions (L x W x H)		384 × 127.3 × 208mm	384 × 127.3 × 208mm	384 × 127.3 × 208mm	384 × 127.3 × 208mm	384 × 127.3 × 208mm
Safety Category		CAT I 300 Vrms, CAT II 300 Vrms	CAT I 300 Vrms, CAT II 300 Vrms	CAT I 300 Vrms, CAT II 300 Vrms	CAT I 300 Vrms, CAT II 300 Vrms	CAT I 300 Vrms, CAT II 300 Vrms
Safety Category Level		CAT I, CAT II	CAT I, CAT II	CAT I, CAT II	CAT I, CAT II	CAT I, CAT II
Operating Temperature		0°C - +50°C	0°C - +50°C	0°C - +50°C	0°C - +50°C	0°C - +50°C
Weight		2.8kg	2.8kg	2.8kg	2.8kg	2.8kg
Rise Time		7ns	5ns	3.5ns	3.5ns	5ns
Plug Type		UK	UK	UK	UK	UK

IDS2000A Series
Visual Persistence Oscilloscopes

RS CAL

UKAS - ILAC

RS Pro IDS2000A Series digital storage oscilloscopes have Visual Persistence Oscilloscope (VPO) technology, which uses grayscale display of waveforms to distinguish signals from one another according to their occurrence frequencies.

IDS2000A Series incorporates 2Mpts record length, waveform search and segmented memory as standard features. Efficiencies in memory use result because events of interest can be captured and saved into the segmented memory (2048 sections) for observation, while irrelevent waveforms can be ignored. IDS2000A can Search and Mark waveform sections which comply with user-defined search condition and threshold levels.

Common Information

Features and Benefits
- 2GSa/s real-time sampling rate
- 100GSa/s equivalent time sampling rate (ETSR)
- 8 inch 800 × 600 high-resolution TFT LCD display
- 80 000wfm/s of waveform update rate
- Built-in segmented memory and waveform search functions
- Zoom window and Play/Pause
- 36 automatic measurement functions
- RS-232C interface and USB port
- PC software and drivers freely downloadable
- Rear panel security slot (for connecting standard Kensington-style lock)

Supplied with
- User manual CD, quick start guide, power cord, switchable passive probe (1 per channel)

Spec. / Ranges / Model		IDS2072A	IDS2074A	IDS2102A	IDS2104A	IDS2202A	IDS2204A	IDS2302A	IDS2304A
RS Stock No.		123-3547	123-3548	124-1952	123-3549	124-1953	123-3550	124-0232	124-1954
Number of Channels		2	4	2	4	2	4	2	4
Bandwidth		70MHz		100MHz		200MHz		300MHz	
Oscilloscope Type		Digital Storage		Digital Storage		Digital Storage		Digital Storage	
Power Source		Mains		Mains		Mains		Mains	
Display Type		TFT LCD		TFT LCD		TFT LCD		TFT LCD	
Screen Size		8in		8in		8in		8in	
Vertical Sensitivity	Minimum Maximum	1mV/div 10V/div		1mV/div 10V/div		1mV/div 10V/div		1mV/div 10V/div	
Time Base	Minimum Maximum	1 ns/div, 100 (ROLL) ms/div 100s/div		1 ns/div, 100 (ROLL) ms/div 100s/div		1 ns/div, 100 (ROLL) ms/div 100s/div		1 ns/div, 100 (ROLL) ms/div 100s/div	
Sample Rate Random		2 G samples/s	500 M samples/s	2 G samples/s	500 M samples/s	2 G samples/s	2 G samples/s	2 G samples/s	500 M samples/s
Record Length		2M points		2M points		2M points		2M points	
Vertical Resolution		8 bit		8 bit		8 bit		8 bit	
Dimensions (L x W x H)		380 × 144.4 × 220mm		380 × 144.4 × 220mm		380 × 144.4 × 220mm		380 × 144.4 × 220mm	
Safety Category		CAT I 300 Vrms, CAT II 300 Vrms		CAT I 300 Vrms, CAT II 300 Vrms		CAT I 300 Vrms, CAT II 300 Vrms		CAT II 300 Vrms	CAT I 300 V, CAT II 300 V
Safety Category Level		CAT I, CAT II		CAT I, CAT II		CAT I, CAT II		CAT II	CAT I, CAT II
Safety Category Voltage		300V		300V		300V		300V	
Plug Type		UK		UK		UK		UK	
Operating Temperature		0°C - +50°C		0°C - +50°C		0°C - +50°C		0°C - +50°C	
Weight		4.2kg		4.2kg		4.2kg		4.2kg	
Rise Time		5ns		3.5ns		1.75ns		1.17ns	
RS-232 Interface		Yes		Yes		Yes		Yes	
USB Interface		Yes		Yes		Yes		Yes	
Lin Interface		Yes		Yes		Yes		Yes	
CAN Interface		Yes		Yes		Yes		Yes	

IDS2000E Series
Visual Persistence Oscilloscopes

RS Pro IDS2000E Series digital storage oscilloscopes offer features normally only available on much higher-priced scopes or as expensive add-ons.

The models are equipped with Visual Persistence Oscilloscope (VPO) technology. This uses a high-density IC for hardware acceleration to transfer all the acquired data into the displayed waveform image.

RS Pro IDS2000E Series can clearly display complex and random waveforms using its 8 inch 800 × 400 16:9 TFT LCD display and maximum 1 mV/div vertical range.

Common Information

Features and Benefits
• 10M depth of memory
• VPO waveform display technology
• Waveform update rate 120,000 wfm/sec
• 8 inch 800 × 480 TFT LCD display
• Maximum 1Mpts FFT
• Digital filter function
• Segmental waveform and waveform search functions
• I²C/SPI/UART/CAN/LIN serial bus trigger and decoding function
• Datalog function for waveform observation over long periods
• Network storage function

Note
• PC software (OpenWave software) and Driver (USB driver, LabView driver) freely downloadable

Supplied with
• Switchable passive probe (1 per channel), quick start guide, user manual on CD, power cord

Spec. / Ranges / Model		IDS2072E	IDS2074E	IDS2102E	IDS2104E	IDS2202E	IDS2204E
RS Stock No.		123-3551	124-0233	124-1955	123-3552	124-1956	123-3553
Number of Channels		2	4	2	4	2	4
Bandwidth		70MHz		100MHz		200MHz	
Oscilloscope Type		Digital Storage		Digital Storage		Digital Storage	
Power Source		Mains		Mains		Mains	
Display Type		TFT LCD		TFT LCD		TFT LCD	
Screen Size		8in		8in		8in	
Vertical Sensitivity	Minimum Maximum	1mV/div 10V/div		1mV/div 10V/div		1mV/div 10V/div	
Time Base	Minimum Maximum	1 ns/div, 100 (ROLL) ms/div 100s/div		1 ns/div, 100 (ROLL) ms/div 100s/div		1 ns/div, 100 (ROLL) ms/div 100s/div	
Sample Rate Random		1G samples/s		1G samples/s		1G samples/s	
Record Length		10M points	1M points/ch	10M points	1M points/ch	10M points	
Vertical Resolution		8 bit		8 bit		8 bit	
Dimensions (L x W x H)		384 × 127.3 × 208mm		384 × 127.3 × 208mm		384 × 127.3 × 208mm	
Safety Category		CAT I 300 Vrms, CAT II 300 Vrms	CAT II 300 Vrms	CAT I 300 Vrms, CAT II 300 Vrms		CAT I 300 Vrms, CAT II 300 Vrms	
Safety Category Level		CAT I, CAT II	CAT II	CAT I, CAT II		CAT I, CAT II	
Safety Category Voltage		300V		300V		300V	
Plug Type		UK		UK		UK	
Operating Temperature		0°C - +50°C		0°C - +50°C		0°C - +50°C	
Weight		2.8kg		2.8kg		2.8kg	
Rise Time		5ns		3.5ns		1.75ns	
SPI Interface		Yes		Yes		Yes	
IIC Interface		Yes		Yes		Yes	
RS485 Interface		Yes		Yes		Yes	
RS422 Interface		Yes		Yes		Yes	
RS-232 Interface		Yes		Yes		Yes	
USB Interface		Yes		Yes		Yes	
Lin Interface		Yes		Yes		Yes	
UART Interface		Yes		Yes		Yes	
CAN Interface		Yes		Yes		Yes	

RSHS800 Series
Handheld Digital Oscilloscope

RS Pro RSHS800 Series handheld digital oscilloscopes provide oscilloscope, multimeter and recorder (including trends and waveform) functions all in one package. The choice of model is between 60MHz (123-6454), 100MHz (123-6455), 150MHz (123-6456) & 200MHz (123-6457) bandwidths. These instruments offer stable performance combined with high performance. They have the flexibility in use for both workbench and field applications.

Common Information

Features and Benefits
- Dual-input oscilloscope, multimeter and recorder in one instrument
- Input voltage through BNC up to CAT ~ 300V and CAT ~ 150V
- Standard probe 10X CAT~ 400V
- Oscilloscope and multimeter safety grade up to CAT~ 600V and CAT ~ 300V
- 5.7 inch TFT colour LCD display
- 1GSa/s real-time sampling rate single channel
- 6000 dots display resolution
- Supports Scope TrendPlot, Meter TrendPlot, Scope Recorder
- Multiple language user interface
- Supports USB storage and update, supports PC remote control and PictBridge print

Spec. / Ranges / Model	RSHS806	RSHS815	RSHS820
RS Stock No.	123-6454	123-6456	123-6457
Number of Channels	2	2	2
Bandwidth	60MHz	150MHz	200MHz
Power Source	Battery, Mains	Battery, Mains	Battery, Mains
Display Type ; Size	144.8mm, Colour, TFT LCD	144.8mm, Colour, TFT LCD	144.8mm, Colour, TFT LCD
Vertical Sensitivity	2mV/div - 100V/div	2mV/div - 100V/div	2mV/div - 100V/div
Time Base (Min → Max)	5ns/div - 50s/div	2.5ns/div - 50s/div	2.5ns/div -50s/div
Sample Rate Random	1 (Real Time) G samples/s, 50 (Equivalent) G samples/s	50 (Equivalent) G samples/s, 500 (Real Time) M samples/s	50 (Equivalent) G samples/s, 500 (Real Time) M samples/s
Rise Time	≤5.8ns	≤2.3ns	≤1.7ns
USB Interface	Yes	Yes	Yes
Record Length	2M points/ch	2M points/ch	32M points/ch
Dimensions (L x W x H) ; Weight	259.5 × 163.2 × 53.3mm ; 1.5kg	259.5 × 163.2 × 53.3mm ; 1.5kg	259.5 × 163.2 × 53.3mm ; 1.5kg
Safety Category	CAT II 1000 V, CAT III 600 V	CAT II 1000 V, CAT III 600 V	CAT II 1000 V, CAT III 600 V
Operating Temperature	0°C to +40°C	0°C to +40°C	0°C to +40°C

IDS200 Series
Handheld Digital Storage Oscilloscope with Digital Multimeter

The IDS200 Series handhelds have a multi-point touch panel which enables engineers to easily move waveform positions, adjust waveform size and set trigger conditions. DUT signals can be retrieved quickly and easily.

Landscape or portrait measurement display gives the opportunity to create a multi-functional measurement environment which clearly displays waveforms under full-screen status.

Common Information

Features and Benefits
- 7.4V/6100mAH battery for up to 4 hours operation
- Built-in 50 000-count digital multimeter, 3 digits resolution
- Simultaneous DMM and DSO operation
- Portrait / landscape display modes
- 1GSa/s maximum sample rate
- Maximum 5Mpts memory depth per channel
- 36 measurement functions
- DCV, DCA, ACV, ACA, R, diode, continuity
- Edge, Alt, Video and Pulse trigger functions
- FFT, FFTrms, +, -, /, math functions
- X-Y mode, Go/No Go, Trend plot
- Shielded BNC terminals

Spec. / Ranges / Model	IDS207	IDS220
RS Stock No.	123-3545	123-3546
Number of Channels	2	2
Bandwidth	70MHz	200MHz
Power Source	Mains ; UK Plug	Mains ; UK Plug
Display Type ; Size	7in, 800×480 full touch capacitive LCD	7in, 800×480 full touch capacitive LCD
Vertical Sensitivity	2mV/div - 10V/div	2mV/div - 10V/div
Time Base (Min → Max)	5 ns/div, 100 (ROLL) ms/div → 100s/div	5 ns/div, 100 (ROLL) ms/div → 100s/div
Sample Rate Random	1 G samples/s	1 G samples/s
Rise Time	<5ns	<1.75ns
USB Interface	Yes	Yes
Record Length	1M points/ch	1M points/ch
Dimensions (L x W x H) ; Weight	136 × 59.7 × 240.2mm ; 1.5kg	136 × 59.7 × 240.2mm ; 1.5kg
Safety Category	CAT II 600V rms, CAT III 300V rms	CAT II 600V rms, CAT III 300V rms
Operating Temperature	0°C to +50°C	0°C to +50°C

IDS300 Series
Handheld Digital Storage Oscilloscopes with Digital Multimeter

Our IDS300 series handhelds have a multi-point touch panel which enables engineers to easily move waveform positions, adjust waveform size and set trigger conditions. DUT signals can be retrieved quickly and easily.

Gives the opportunity to create a multi-functional measurement environment which clearly displays waveforms under full-screen status.

Supplied with power cord, passive probe, multimeter test lead (x2), soft carrying case (large), protection bag (small) and AC-DC adapter and wrist strap.

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Common Information

Features and Benefits

- Built-in 50 000-count digital multimeter, 3 digits resolution
- Simultaneous DMM / DSO operation
- Portrait / landscape display modes
- 1GSa/s maximum sample rate
- Maximum 5Mpts memory depth
- 7 inch 800 × 480 full touch panel capacitive LCD multi-point control
- 36 automatic measurement functions
- DCV, DCA, ACV, ACA, R, diode, continuity
- Edge, Alt, Video & Pulse trigger functions
- FFT, FFTrms, +, -, /, math functions
- Temperature measurement
- 30,000 consecutive waveform records logging function, replay measurement results any time

Spec. / Ranges / Model	IDS307	IDS320
RS Stock No.	124-0231	124-1951
Number of Channels	2	2
Bandwidth	70MHz	200MHz
Oscilloscope Type	Digital Storage	Digital Storage
Power Source	Mains	Battery
Display Type	LCD	Colour
Vertical Sensitivity	2mV/div - 10V/div	2mV/div - 10V/div
Time Base	5ns/div - 100s/div	5ns/div - 100s/div
Screen Size	7in	7in
Sample Rate Random	1 G samples/s	1 G samples/s
USB Interface	Yes	Yes
Record Length	5M points/ch	5M points/ch
Dimensions (L x W x H)	240.2 × 59.7 × 136mm	240.2 × 59.7 × 136mm
Safety Category	CAT II 600 Vrms, CAT III 300 Vrms	CAT II 300 V, CAT II 600 V, CAT III 300 V
Safety Category Level	CAT II, CAT III	CAT II, CAT III
Safety Category Voltage	300 Vrms, 600 Vrms	300 Vrms, 600 Vrms
Weight	1.5kg	1.5kg

ISR6051 Series Analog Oscilloscope

Its ability to measure waveform intensity makes the analog oscilloscope an instrument of choice in some fields e.g. TV and video. The RS Pro ISR-6051 has a built-in 6-digit frequency counter, cursor and numerical readouts, making waveform observation and measurement fast and accurate. Setup save/recall enable regular setups to be recalled for ease-of-use and for production test applications.

RS CAL | UKAS - ILAC

- Rise time 7/ 50ns
- 8 × 10 1cm divisions
- Readout measurement of ΔV, ΔT, 1/ΔT
- 50Hz to 50MHz frequency counter, 6-digits, accuracy ±0.01%
- MEM save/recall of up to 10 front panel setups
- TV sync triggering for automatic linear focus maintains optimum beam focus
- Variable trigger hold off for stable display of periodic waveforms
- ALT MAG functions (x5, x10, x20)

- Trigger modes Auto, Norm, TV field and TV line
- Sensitivity 1 mV to 20 V/div in 14 steps
- Timebase 0.2μs to 0.5sec/div in 20 steps
- 400 V (DC + AC peak) maximum input to CH1 and CH2
- Constructed to EN61010-1 (safety standard) 300V Cat II
- Supplied with mains lead and instruction manual

Spec. / Ranges / Model		ISR6051
RS Stock No.		123-3557
Number of Channels		2
Bandwidth		50MHz
Time Base	Maximum Minimum	0.5s/div 0.2μs/div
Vertical Sensitivity	Maximum Minimum	20V/div 1mV/div
Rise Time		7 ns @ 20 V/div, 50 ns @ 2 mV/div
Display Type		LCD
Input Capacitance		25 pF
Input Impedance		1 MΩ
Dimensions (L x W x H)		370 × 275 × 130mm
Operating Temperature		0°C - +40°C
Weight		7.2kg
Safety Category Level		CAT I, CAT II, CAT III, CAT IV

ICA3000 Flexible 3000A Current Probe

The ICA3000 is a great value, flexible probe. It differs from normal clampmeters because it can pass through obstacles at will and wind many conducting wires simultaneously.

- Battery 2 × AA 1.5V Alkaline (2000mAHrs)
- 2 selectable AC current ranges, 300A and 3000A
- 2 output sensitivities, 300mV/A and 1V/A
- Operating environment -10 to +50°C, 15% to 85% RH
- Dimentions: 130 × 80 × 43mm
- Weight 430g

ICA3000 Current Probe	123-2199

Oscilloscope Mounting & Holding Device

GRA-411 rack aapter panel for IDS3000 series VPO oscilloscopes

GRA-411 Mounting & Holding Device	122-5406

RSDPB4080 DC-50MHz High Voltage Differential Probe

- Bandwidth DC-50MHz
- Max differential test voltage (DC + Peak AC) 10 X: 80V, 100 X: 800V
- Max input common mode voltage (voltage-to-earth Vrms) 800Vrms
- Input impedance single-ended to ground 27MΩ, two inputs 54MΩ
- Input capacitance single-ended to ground <2.3 pF, two inputs <1.2pF
- CMRR: DC >80dB; 100kHz >60dB; 1 MHz >50dB
- Propagation delay 18ns ± 1ns
- Power supply 9V DC power
- Probe body dimensions 165 × 69 × 26mm
- Probe body weight approximately 500g

RSDPB4080 High Voltage Differential Probe	123-6478

RS Pro Soft Carrying Cases

Carry cases for use with selected RS Pro oscilloscopes, digital storage oscilloscopes and spectrum analysers.

- 122-5407 - For use with IDS200A and IDS3000 series
- 123-6470 - For use with RSDS1000CFL and RSSA3000X series
- 123-6471 - For use with RSDS1000DL and RSDS1000CML series

122-5407   123-6470   123-6471

GSC008 Soft Carry Case	122-5407
BAGSCC Soft Carry Case	123-6470
RSDS1000C2 Soft Carry Case	123-6471

RSDPB5150 High Voltage Differential Probe

- Bandwidth DC-70MHz
- Max differential test voltage 50 X: 150V, 500 X: 1500V
- Max input common mode voltage 600V CATIII, 1000V CATII
- Overload indicator(red light)
- Overload alarm
- Automatic save
- Offset setting function
- Terminate load 1MΩ
- Power supply USB 5V/1A adapter
- Probe body dimensions 195 × 65 × 28mm
- Probe body weight approximately 188g

RSDPB5150 High Voltage Differential Probe	123-6479

IDM8300 Series Dual Measurement Multimeters

The IDM-8300 series bench multimeters feature 50 000 counts, VF (vacuum fluorescent) dual-display, 0-02% basic DC voltage accuracy and a USB protocol connector.

These features provide users with measurement precision, comprehensive data observation and the convenience of connection to a PC.

Common Information

Features and Benefits
- 50,000-count
- Vacuum Fluorescent Display (VFD) with 2 colours
- Dual measurement
- Fast measurement rate
- 0.02% DCV basic accuracy
- Auto/Manual ranging
- True RMS (AC, AC+DC)
- 11 measurement functions
- Max/Min, REL, MX+B, 1/X, Ref%, Compare, Hold, dB, dBm
- Standard USB device for communicating with a PC

Areas of Application
- Production test and quality inspection
- Educational laboratory experiments
- Repair and service
- Circuit testing and debug

Specifications / Ranges / Model	IDM8341	IDM8342	IDM8342 with GPIB
RS Stock No.	123-3535	123-3536	124-0228
Maximum AC Voltage Measurement (V AC)	750	750	750
AC Voltage Measurement Resolution (µV AC)	10	10	10
Best AC Voltage Accuracy	0.35%	0.35%	±0.35% + 15 digits
AC Current Measurement Resolution (nA AC)	10	10	10
Best AC Current Accuracy	±0.5% + 20 digits	±0.5% + 20 digits	±0.5% + 20 digits
Maximum DC Current Measurement (A DC)	10	10	10
DC Voltage Measurement Resolution (µV AC)	10	10	10
DC Current Measurement Resolution (nA DC)	10	10	10
Best DC Current Accuracy	±0.05% + 4 digits	±0.05% + 4 digits	±0.05% + 4 digits
Best DC Voltage Accuracy	±0.02% + 4 digits	±0.02% + 4 digits	±0.02% + 4 digits
Maximum AC Current Measurement (A AC)	10	10	10
Maximum DC Voltage Measurement (V DC)	1000	1000	1000
Resistance Measurement Resolution (mΩ)	10	10	10
Maximum Resistance Measurement (MΩ)	50	50	50
Best Capacitance Measurement Accuracy	±2% + 4 digits	±2% + 4 digits	±2% + 4 digits
Maximum Capacitance Measurement (µF)	50	50	50
Capacitance Measurement Resolution (nF)	0.001	0.001	0.001
Maximum Temperature Measurement (°C)	-	300	300
Maximum Frequency (MHZ)	1	1	1
Display Type	LCD	LCD	VFD
Multimeter Type	Bench	Bench	Bench
Weight (kg)	2.9	2.9	2.9
Dimensions (mm)	265 × 302 × 107	265 × 302 × 107	265 × 302 × 107
Functions Measured	AC current, AC voltage, Capacitance, Continuity, DC current, DC voltage, Diode test, Frequency, Resistance, Temperature	AC current, AC voltage, Capacitance, Continuity, DC current, DC voltage, Diode test, Frequency, Resistance, Temperature	AC current, AC voltage, Capacitance, Continuity, DC current, DC voltage, Diode test, Frequency, Resistance, Temperature
General Purpose Interface Bus (GPIB)	No	No	IEEE 488 standard digital 8-bit parallel communications interface

IDM8351 Dual Measurement Multimeter

Multimeter IDM8351 offers unprecedented functionality plus the fastest measurement speed in its class. The instrument's measurement functions include AC/DC voltage, AC/DC current, AC+DC voltage/current, two-wired and four-wired resistance, continuity beeper, diode test, capacitance, frequency and temperature.

- 120 000-count, VFD display
- Dual measurement, dual display
- Basic precision of DC voltage 0.012%
- Selectable measurement speeds (slow, medium, fast)
- True RMS (AC, AC+DC) measurements

- 12 different measurement functions
- Many auxiliary functions
- Digital I/O (provides dual mode)
- RS-232C and USB device interface as standard

Size & Weight:
265 × 107 × 302 mm: 2.9kg

Safety Category:
CAT II 600V

Supplied with:
User manual, driver and software on CD, safety instruction sheet, test lead, power cord

Multimeter Type:
Bench

Max AC Current Measurement (A AC)	10
Max DC Current Measurement (A AC)	10
Max AC Voltage Measurement (V AC)	750
Max DC Voltage Measurement (V AC)	1000
Max Resistance Measurement (MΩ)	100
Max Capacitance Measurement (MΩ)	100
Max Temperature Measurement (°C)	+300
Max Frequency (kHz)	10

IDM-8351 Dual Measurement Multimeter	123-3537

RSDM3055/RSDM3055A Digital Multimeter

The RSDM3055 is a 5-digit multimeter with a dual-readout display. RSDM3055A is of similar specification but, in addition, includes a USB to GPIB adapter.

RS CAL   UKAS - ILAC

These models come equipped with a 4.3 inch TFT LCD screen. They feature many powerful math and statistical functions and are designed for users who need high performance together with multiple functions and automatic measurements.

Common Information

Features and Benefits
- Real 5 digit reading resolution
- Up to 150rdgs/s measurement
- True-RMS AC voltage and AC current measuring
- 1GB nand flash size, mass storage configuration files and data files
- Built-in cold terminal compensation for thermocouple temperature measurements
- USB Device, USB Host, LAN (plus GPIB with RSDM3055A only)
- Supports remote control via commands and is compatible with commands of mainstream multimeters
- Includes EasySDM computer software100/60MHz bandwidths

Size: 282 × 260 × 105mm

Weight: 3.3kg

Model	RSDM3055	RSDM3055A
Max AC Voltage Measurement (V AC)	750	750
Max AC Current Measurement (A AC)	10	10
Max DC Voltage Measurement (V DC)	1000	1000
Max DC Current Measurement (A DC)	10	10
Max Resistance Measurement (MΩ)	100	100
Max Capacitance Measurement (mF)	10	10
Max Frequency (MHz)	1	1
Safety Category Voltage (V)	600, 1000	600, 1000
Display Type	LCD	LCD
Application	Electrical	Electrical
General Purpose Interface Bus (GPIB) adaptor	Yes	Yes

RSDM3055 Digital Multimeter	123-6465
RSDM3055A Digital Multimeter	123-6466

AFG21000 and AFG21100 Series Arbitrary Function Generators

Our AFG21000/AFG21100 AFGs use direct digital synthesis (DDS) to generate signals at precise frequencies through a unique memory access and clocking mechanism.

They offer an accurate and affordable signal source covering the output of Sine, Square (Pulse), Ramp (Triangle), Noise and Arbitrary waveforms.

Common Information

Features and Benefits
- Sine, Square, Triangular, Noise and Arbitrary waveforms
- 0.1Hz resolution of Sine, Square and Triangular waveforms
- 20MSa/s sampling rate, 10 bit vertical resolution and 4 Kpts memory
- 1% - 99% adjustable duty cycle for Square waveform
- Waveform parameter setting through numeric keypad entry and knob selection
- Amplitude, DC offset and other key setting information displayed simultaneously on the 3.5in LCD screen
- USB device interface for remote control and waveform editing
- PC arbitrary waveform editing software

Supplied with: Power cord, test lead, quick start guide, user manual CD

Spec. / Ranges / Model	AFG21005	AFG21012	AFG21025	AFG21105	AFG21112	AFG21125
RS Stock No.	123-3529	123-3530	124-0226	123-3531	123-3532	123-3533
Maximum Frequency Sinewave (MHz)	5	12	25	5	12	25
Minimum Frequency Sinewave (Hz)	0.1			0.1		
Maximum Frequency Square Pulse and Arbitrary Waveform (MHz)	5	12	25	5	12	25
Minimum Frequency Square Pulse and Arbitrary Waveform (Hz)	0.1			0.1		
Maximum Frequency Triangle/Saw (MHz)	1			1		
Minimum Frequency Triangle/Saw (Hz)	0.1			0.1		
AM/FM/FSK Modulation	N			Y		
Sweep	N			Y		
Frequency Counter	N			Y		
Time Base Accuracy	±20ppm			±20ppm		
Input Impedance (kΩ)	1			1		
Output Amplitude (mV Pk-Pk)	1 → 10, 2 → 20 (Open Circuit)			1 → 10, 2 → 20 (Open Circuit)		
Output Impedance (kΩ)	>300 (Output Disabled), 50 (Fixed)			>300 (Output Disabled), 50 (Fixed)		
Interface Type	USB			USB		
Dimensions (mm)	266 × 293 × 107			266 × 293 × 107		
Weight (kg)	2.5			2.5		

AFG30000 Series
Arbitrary Function Generators

Series AFG30000 users can implement multi-channel synchronised-phase operation up to 6 units and 12 channels (AFG30022/30032).

RS CAL   UKAS - ILAC

The Series supports frequency sweep and amplitude sweep, integrating - as required - functions such as linear/logarithm, one-way (saw tooth)/two-way (triangle), continuous/single trigger/gated trigger.

Common Information

Features and Benefits

- 16-bit resolution with 1 mVpp to 10 Vpp amplitude
- 250MSa/s sampling rate for higher time resolution arbitrary waveforms
- 8Mpoint/channel standard waveform memory
- Input/output signal ground independent of housing (signal ground between channels also insulated)
- Synchronised phase operates up to 6 units and 12 channels
- Pulse waveform parameters can be set independently for more precise timing
- Harmonic signal generator
- Dual channel models support SUM modulation, coupling, tracking and phase functions
- Built-in AM/FM/PM/FSK/PWM/SUM modulation, sweep and burst functions
- USB/LAN instrument control interface

Size & Weight: 265 × 107 × 374mm: 4kg

Spec. / Ranges / Model	AFG30021	AFG30022	AFG30031	AFG30032
RS Stock No.	122-5620	122-5621	122-5622	122-5623
Number of Channels	1	2	1	2
Maximum Frequency Range Sinewave (MHz)	20		30	
Minimum Frequency Range Sinewave (µHz)	1		1	
Output Amplitude (V Pk-Pk)	10, 20		10, 20	
Maximum Frequency Range Square Pulse and Arbitrary Waveform (MHz)	20		25 (Pulse), 30 (Square)	
Minimum Frequency Range Square Pulse and Arbitrary Waveform (µHz)	1		1	
Frequency Range Square Pulse and Arbitrary Waveform	1 µHz → 20MHz		1 µHz → 25 MHz (Pulse), 1 µHz → 30MHz (Square)	
Output Impedance (Ω)	50		50	
Operating Temperature Range	0°C to +40°C		0°C to +40°C	
Interface Type	LAN, USB		LAN, USB	
Time Base Accuracy	±1ppm		±1ppm	
Maximum Frequency Range Triangle/Saw (MHz)	1		1	
Minimum Frequency Range Triangle/Saw (µHz)	1		1	
Input Impedance (kΩ)	>10		>10	

AFG21225 True Dual Channel Arbitrary Waveform Function Generator

RS CAL

AFG21225 is a base-level dual-channel arbitrary function generator which offers superior functions in its class.

The two channels are similarly equipped in order to accommodate dual-signal applications such as differential signalling or IQ modulation. They can be used in either independent or correlated (Couple, Tracking, Phase) configuration.

- 1μHz resolution in full range
- Built-in standard 120 MSa/s, 10 bit, 4Kpts arbitrary function for both channels
- True dual-channel output
- Dual-channel supports Couple, Tracking, Phase operations
- 1% - 99% adjustable duty cycle for square waveform

- User-friendly interface for easy parameter setting and parameter display
- Built-in standard AM/FM/PM/FSK/SUM/Sweep/Burst and Frequency Counter
- USB host/device interface for remote control and waveform editing

Size & Weight:
266 × 293 × 107 mm: 2.5kg

Plug Type:
UK

Supplied with:
Power cord, test leads (x2), user manual CD, quick start guide

Frequency Range (Sinewave)	1μHz - 25MHz
Frequency Range Square Pulse and Arbitrary Waveform	1μHz - 25MHz
Time Base Accuracy	±20ppm
Output Impedance (Ω)	50
Operating Temperature Range (°C)	0 - +40

AFG-21225 Function Generator and Counter	123-3534

AFG3051 Function Generator

RS CAL   UKAS - ILAC

The feature-rich AFG-31000 Series is a flexible signal source designed to meet the diverse requirements of the markets for AWGs.

It features 200MSa/s sample rate, 100MHz repetition rate by true point-by-point edit, 16-bit vertical resolution and 1Mpts waveform length. Stand-out features are user-friendly operation, On Screen Help and multiple ways of arbitrary waveform editing.

Areas of Application
- Industry
- Scientific research
- Education

- Wide requency range
- 1 μHz frequency resolution throughout full range
- Standard waveforms Sine, Square, Triangle, Ramp, Pulse, Noise
- Built-in AM, FM, PWM, FSK, Sweep and Burst functions
- 16-bit, 200 MSa/s, 1 Mpts deep arbitrary waveform
- Direct Waveform Reconstruction (DWR) capability
- Arbitrary waveform editing PC software
- 4.3 inch, high resolution LCD display
- GPIB, RS-232C, USB host/device standard interfaces

Maximum Frequency Range Sinewave	50
Maximum Frequency Range Square Pulse and Arbitrary Waveform	50
Maximum Frequency Range Triangle/Saw	1
Output Impedance (Ω)	50
Output Amplitude	10mV Pk-Pk → 10 V Pk-Pk
Operating Temperature Range (°C)	0 - +40
Interface Type	GPIB, RS-232, USB
Dimensions	265 × 374 × 107mm
Weight (kg)	4

AFG-3051 Function Generator	124-0227

ISG LF44 Function Generator

The ISG-LF44 is a pocket-sized USB-interface-compatible RF signal generator which can be used with a smartphone or tablet. It covers the frequency range 35MHz ~ 4400MHz and provides continuous wave (CW) signal outputs without any signal modulation function. Supported modes include fixed frequency, frequency sweep, frequency hopping and power sweep.

Areas of Application
- Education and training
- Fourier Theory investigation
- Motherboard circuit measurement
- Wireless communication signal measurement
- Remote control maintenance

Supplied with
USB cable, user manual, software on CD-ROM

RS CAL

- Frequency range 34.5MHz ~ 4400MHz
- Output power range -30dBm ~ 0dBm
- Continuous wave signal without any modulation
- Fixed frequency, frequency sweep, frequency hopping and power sweep modes
- -107 dBc/Hz phase noise @ 100kHz offset
- Frequency resolution 10kHz
- PC USB interface powered and controlled
- External PC software supports different operating systems

Interface Type	USB 2.0
Operating Temperature Range (°C)	+5 - +45
Output Impedance (Ω)	50
Dimensions (mm)	29.5 (Dia.) x 102.4mm
Weight (kg)	0.1

ISG-LF44 RF Signal Generator	123-3580

GFG8200A Series Signal Generator

RS CAL

This signal generator GFG8200A series is a stable, low-distortion instrument which generates signals in the frequency range up to 3MHz (GFG8219A) or 5MHz (GFG8255A).

Like the GFG8216A (123-3554) these models include TTL, CMOS and RAMP outputs, external voltage control frequency (VCF) and a built-in 6-digit frequency counter.

Common Information

- Choice of 0.3Hz to 3MHz (GFG-8219A) or 0.5 Hz to 5 MHz (GFG-8255) models
- 6-digit LED read-out of generator frequency
- Sine, Square, Triangle and Ramp waveforms
- TTL and variable CMOS outputs
- Duty cycle control
- Variable DC offset
- Built-in 6 digit frequency counter with 150MHz range (external input)
- NT/EXT AM/FM modulation

Supplied with:
Instruction manual, test leads

Model	GFG-8219A	GFG-8255A
Frequency Range (Sinewave)	0.3Hz - 3MHz	0.5Hz - 5MHz
Frequency Range Square Pulse and Arbitrary Waveform	0.3Hz - 3MHz	0.5Hz - 5MHz
Frequency Range Triangle/Saw	0.3Hz - 3MHz	0.5Hz - 5MHz
Operating Temperature Range (°C)	0 - +40	0 - +40
Dimentions (mm)	251 × 291 × 91mm	251 × 291 × 91mm
Weight (kg)	2.2	2.4
Time Base Accuracy	±10ppm	±10ppm
Attenuation	-20dB	-20dB

GFG-8219A Signal Generator	123-3555
GFG-8255A Signal Generator	123-3556

GFG8216A Combined Function Generator and Frequency Counter

RS CAL

A stable, low-distortion instrument which generates signals in the frequency range up to 3 MHz. Embedded functions include TTL, CMOS and RAMP outputs, external voltage control frequency (VCF) and built-in 6-digit frequency counter. The counter can be switched to measure and display the frequency of an external signal up to 150MHz.

- 6 digit LED read-out generator frequency
- Duty cycle control
- External voltage controlled frequency
- Variable DC offset
- Built-in 6 digit frequency counter with 150MHz range (external input)

Size & Weight:
251 × 291 × 91mm: 2.1kg

Plug Type:
UK

Supplied with:
Instruction manual, test leads

Frequency Range (Sinewave)	0.3Hz - 3MHz
Frequency Range Square Pulse and Arbitrary Waveform	0.3Hz - 3MHz
Frequency Range Triangle/Saw	0.3Hz - 3MHz
Time Base Accuracy	±10ppm
Operating Temperature Range (°C)	0 - +40
Output Amplitude	>10V Pk-Pk

GFG-8216A Function Generator and Counter	123-3554

ISA730 Desktop Spectrum Analyser

ISA730 has been developed principally to meet the needs of RF communications. It measures and displays the frequency spectrum distribution of an RF signal, and can measure and read frequency and amplitude information.

The most important selection criterion for a spectrum analyser is frequency range. The RS Pro ISA730, with its frequency range up to 3GHz, offers versatility to prospective buyers.

Areas of Application
- Wireless communication devices and systems
- Research and design development
- Service and maintenance
- Industrial and manufacturing
- Education

Supplied with
CD (user manual and software), power cord

- Frequency range 150kHz to 3GHz
- Autoset function
- Noise level ≤ -100dBm
- RBW range 30kHz, 100kHz, 300 kHz, 1MHz
- ACRR, CHPW, OCBW measurement
- 3 traces in different colours
- Split window function
- Limit line function
- Remote control software
- Presentation material for training courses
- Support interface USB device/ host, RS-232C
- 5.6 inch TFT LCD with VGA output

Bandwidth	30 kHz → 1 MHz
Sweep Modes	Continuous
Setting Modes	Full Span, Last Span, Zero Span
Frequency Range	150 kHz - 3GHz
Display Type	TFT LCD
Screen Size (inch)	5.6
Operating Temperature Range (°C)	5 - 45
Size (mm)	296 × 115.1 × 152
Weight (kg)	2.2

ISA-730 Desktop Spectrum Analyser	123-3568

RPE Series Linear DC Power Supplies

RPE series is a range of cutting edge, economical linear DC power supplies. It offers output power from 192 to 217 watts, depending on choice of model. Series features include high resolution, low noise, reliability and compact size.

A unique built-in digital panel control provides functionalities which include set view and key lock. The key lock function protects DUTs by preventing others from changing voltage and current parameters.

Common Information

- 1 / 2 / 3 / 4 independent isolated output (depending on choice of model)
- 4.3 inch LCD Display
- Setting and read-back resolution 100 mV / 10 mA (for higher resolution 10 mV / 1 mA see setting procedure in user manual)
- Output ON / OFF
- Analog Control (Remote I/O) for Output ON / OFF
- Set View function for checking an original V / I setting during Output ON
- Key lock function
- Tracking series and parallel operation
- Smart cooling fan achieves low noise

Supplied with:

User manual (CD), power cord, test leads

Specifications / Ranges / Model	RPE5035	RPE5036	RPE5037	RPE5038
RS Stock No.	122-5035	122-5036	122-5037	122-5038
Power Rating (W)	212W	217W	192W	192W
Type	Digital	Digital	Digital	Digital
Number of Displays	1	1	1	1
Minimum Temperature (°C)	0	0	0	0
Maximum Temperature (°C)	+40	+40	+40	+40
Output Voltage (V)	0 → 15, 0 → 5, 2 × 0 → 32	5, 2 × 0 → 32	2 × 0 → 32	0 → 32
Output Current (A)	2 × 0 → 1, 2 × 0 → 3	2 × 0 → 3, 5	2 × 0 → 3	0 → 6
Supply Voltage (V AC)	100/120/220, 230	100/120/220, 230	100/120/220, 230	100/120/220, 230
Input Connector	3 pin plug	3 pin plug	3 pin plug	3 pin plug
Output Voltage (V)	0 → 15, 0 → 5, 2 × 0 → 32	2 × 0 → 32, 5	2 × 0 → 32	0 → 32
Number of Outputs	4	3	2	1
Category	Bench power supplies	Bench power supplies	Bench power supplies	Bench power supplies
Size (mm)	210 × 155 × 306	210 × 155 × 306	210 × 155 × 306	210 × 155 × 306
Weight (kg)	7	7	7	7

IPS Series Linear DC Power Supplies

With cutting edge technology at a keen price, the IPS series multiple output programmable linear DC power supplies offer a choice of models between 2, 3 and 4 independent output channels, supporting a maximum output from 180W to 195W.

The power supplies include four sets of memory for voltage and current setting, a USB remote interface, high resolution (IPS-2303S, IPS-3303S & IPS-4303S) and intelligent fan control to reduce noise.

Common Information

- 2, 3 or 4 independent isolated outputs (depending on choice of model)
- 4 LED display sets - 3 digits after decimal point (IPS-2303S, IPS-3303S & IPS-4303S)
- Minimum resolution 1mV / 1mA (IPS-2303S, IPS-3303S & IPS-4303S), 100mV / 10mA (IPS-3303D)
- Digital panel control (rotary encoder switch, rubber key with indicator)
- User-friendly operation, Coarse / Fine volume control
- 4 sets memory Save / Recall
- Key lock
- Output On / Off
- Tracking series and parallel modes
- Smart cooling fan for low noise
- PC software and USB driver
- USB standard interface

Supplied with
User manual, power cord

Specifications / Ranges / Model	IPS3558	IPS3559	IPS3560	IPS3561
RS Stock No.	123-3558	123-3559	123-3560	123-3561
Power Rating (W)	180	195	195	195
Type	Digital	Digital	Digital	Digital
Number of Displays	4	4	4	4
Minimum Temperature (°C)	0	0	0	0
Maximum Temperature (°C)	+40	+40	+40	+40
Output Connector	Plug-In terminal block	Plug-In terminal block	Plug-In terminal block	Plug-In terminal block
Output Voltage (V)	2 × 0 → 30	2 × 0 → 30, 2.5 → 5	2 × 0 → 30, 2.5 → 5	0 → 5, 2 × 0 → 30
Output Current (A)	2 × 0 → 3	3 × 0 → 3	3 × 0 → 3	0 → 1, 3 × 0 → 3
Supply Voltage (V)	100 → 230V AC	100 → 230V AC	100 → 230V AC	100 → 230V AC
Number of Outputs	2	3	3	4
Category	Bench power supplies	Bench power supplies	Bench power supplies	Bench power supplies
Size (mm)	210 × 130 × 265	210 × 130 × 265	210 × 130 × 265	210 × 130 × 265
Weight (kg)	7	7	7	7

IPS1603D Digital Bench Power Supply

RS CAL   UKAS - ILAC

The single-output IPS1603D is a 180W linear DC power supply suitable for high-end precision benchtop applications. Low load and line regulation, for both constant voltage and constant current modes, ensures reliable and predictable output.

Features include overload and reverse polarity protection, and internal selection for dynamic or constant load.

- 0.01% high regulation
- Constant voltage and constant current operation
- Internal select for continuous or dynamic load
- Low ripple and noise
- Overload and reverse polarity protection
- 3 digit 0.5 inch LED display
- Power source AC 100V / 120V / 220V / 230V ±10%, 50 / 60Hz

Supplied with:
User manual, power cord, test lead

Output Voltage (V DC)	0 - 60
Supply Voltage (V AC)	100 - 240
Output Current (A)	0 - 3
Power Rating (W)	180
Output Connector	Plug-In terminal block
Number of Outputs	1
Number of Displays	2
Temperature Range (°C)	0 - +40
Size (mm)	254 × 152 × 349

IPS-1603D Linear DC Power Supply	123-3562

IPS303A Analogue Bench Power Supply

RS CAL   UKAS - ILAC

The great value IPS303A is a single output linear DC power supply with output voltage 0 ~ 30V and output amperage 0 ~ 3A. It features overload and reverse polarity protection as well as maintaining high regulation (0.01%) and low ripple/noise (<1mVrms).

Continuous or dynamic internal load selection accommodates applications such as pulsed current. Remote control terminals offer programming and operation from an external device.

- Compact analog unit, easy to use and control
- Coarse and fine controls for voltage and current
- Overload, short circuit & reverse polarity protection, with low ripple and noise
- Excellent output regulation
- Constant current/voltage operation
- Can be connected in series or parallel
- Remote voltage and current setting capability

Supplied with:
User manual, power cord, test lead

Output Voltage (V DC)	0 - 30
Supply Voltage (V AC)	100 - 240
Output Current (A)	0 - 3
Power Rating (W)	90
Output Connector	Plug-In terminal block
Number of Outputs	1
Number of Displays	2
Temperature Range (°C)	0 - +40
Size (mm)	128 × 145 × 285
Weight (kg)	5

IPS-303A Analogue Bench Power Supply	123-3563

IPS303DD Digital Bench Power Supply

RS CAL   UKAS - ILAC

Our IPS303DD is a single output, 90W linear DC power supply. It features overload and reverse polarity protection (maintained at 0.01%) and low ripple/noise (maintained at <1 mVrms). Continuous or dynamic internal load selection accommodates applications such as pulsed current.

A remote control terminal offers programming and operation from an external device.

- 0.01% high regulation
- Constant voltage and constant current operation
- Remote control for external programming
- Internal select for continuous or dynamic load
- Low ripple and noise
- Overload and reverse polarity protection
- Series or parallel operation
- Power source AC 100 V / 120 V / 220 V / 240 V ±10%, 50 / 60 Hz
- Light and compact design

Supplied with:
User manual, power cord, test lead

Output Voltage (V DC)	0 - 30
Supply Voltage (V AC)	100 - 240
Output Current (A)	0 - 3
Power Rating (W)	90
Output Connector	Plug-In terminal block
Number of Outputs	1
Number of Displays	2
Temperature Range (°C)	0 - +40
Size (mm)	128 × 145 × 285

IPS-303DD Digital Bench Power Supply	123-3564

IPS Series Multiple Output Linear DC Power Supplies

The entry level IPS series offers general purpose power supplies recognised for their affordability.

Choose from 2, 3 or 4 channels models, 180W to 200W output, overload and reverse polarity protection, and an output On / Off switch for safety.

Common Information

- 2, 3 or 4 independent isolated outputs (depending on choice of model)
- 4 LED display sets (3-digit)
- 0.01% load and line regulation
- Low ripple and noise
- Tracking and auto series/parallel operation
- Output On / Off switch
- Output voltage and current setting when output disabled (IPS3303 & IPS4303)
- Fan speed control circuit to minimise fan noise
- Overload and reverse polarity protection
- Power source AC 100V / 120V / 220V ±10%, 230V (+10% ~ -6%), 50 / 60Hz

Areas of Application
- General laboratory
- Education
- Industry

Supplied with
- User manual, power cord, test leads

Specifications / Ranges / Model	IPS2303	IPS3303	IPS4303
RS Stock No.	123-3565	123-3566	123-3567
Power Rating (W)	180W	195W	200W
Type	Digital	Digital	Digital
Number of Displays	4	4	4
Output Connector	Plug-In terminal block	Plug-In terminal block	Plug-In terminal block
Output Current (A)	2 × 0 → 3A	2 × 0 → 3A, 3A	2 × 0 → 3A, 2 × 1A
Supply Voltage (V AC)	100 → 230V AC	100 → 230V AC	100 → 230V AC
Output Voltage (V)	2 × 0 → 30V	0 → 5V, 2 × 0 → 30V	2 × 0 → 30V, 2.2 → 5.2V, 8 → 15
Number of Outputs	2	3	4
Minimum Temperature (°C)	0	0	0
Maximum Temperature (°C)	+40	+40	+40
Size (mm)	255 × 145 × 265mm	255 × 145 × 265mm	255 × 145 × 265mm
Weight (kg)	7	7	7

IPS Series Programmable Switching DC Power Supplies

IPS series offers a single output, programmable switching DC power supplies in a range of models. Loads are protected from unexpected conditions by over voltage protection (OVP), over current protection (OCP), over temperature protection (OTP) and over power protection (OPP).

Other features include a large backlit LCD panel, with output and parameter views, and a key lock to prevent changing the settings.

Common Information

- Output On/Off control
- Constant voltage/current operation
- OVP, OCP, OTP & OPP protection
- Key lock to avoid operational errors
- Normal, +% & -% output operation key
- High efficiency and high power density
- RS-232 interface

Areas of Application:
General laboratory benchtop
Education

Supplied with:
Power cord, instruction manual, test lead

Model	IPS2010	IPS405	IPS603
Power Rating (W)	200	200	200
Output Connector	Plug-In terminal block	Plug-In terminal block	Plug-In terminal block
Output Current (A)	0 → 10	0 → 5	0 → 3.5
Output Voltage (V DC)	0 → 20	0 → 40	0 → 60
Supply Voltage (V AC)	115 (±10 %), 230 (±15 %)	115 (±10 %), 230 (±15 %)	115 (±10 %), 230 (±15 %)
Number of Displays	1	1	1
Number of Outputs	1	1	1
Type	Digital	Digital	Digital
Minimum Temperature (°C)	0	0	0
Maximum Temperature (°C)	+40	+40	+40

IPS2010 Programmable Switching DC Power Supply	123-3569
IPS405 Programmable Switching DC Power Supply	123-3570
IPS603 Programmable Switching DC Power Supply	123-3571

IPS3202 Multiple Output Programmable Digital Bench Power Supply

A fully programmable, triple output power supply controlled by a microprocessor unit (MPU), which can be connected via an in-built RS-232 communication interface to a personal computer.

This allows remote operation, as required, for automatic testing and control. Voltage and current are controlled by a 12 bit D/A converter with high resolution and accuracy.

- Digitised programmable interface
- Over voltage protection (OVP), over current protection (OCP) and over temperature protection (OTP)
- Intelligent fan control (changed by output power)
- Output on/off control
- 100 non-volatile settings storage (STORE / RECALL)
- Auto step running with timer setting
- Auto Series and Parallel function
- PC software and LabView driver (freely downloadable)
- High stability, low drift
- Built-in audible alarm
- Remote control via RS-232 interface

Size & Weight:
I230 × 140 × 380mm: 10kg

Areas of Application:
High resolution, multiple output, automated applications
Production testing
Rack mounting systems

Supplied with:
User manual, power cord, test leads

Power Rating (W)	158
Resolution	10mV, 1mA
Output Connector	Plug-in terminal block
Output Current (A)	0 → 5A, 2 × 0 → 2A
Output Voltage (V DC)	0 → 6V, 2 × 0 → 32V
Supply Voltage (V AC)	100 → 230V AC
Number of Displays	1
Number of Outputs	3
Type	Digital
Display	192 × 128 LCD
Minimum Temperature (°C)	0
Maximum Temperature (°C)	+40

IPS-3202 Digital Bench Power Supply	123-3572

IPS Series Multi Range Programmable Switching DC Power Supplies

Our IPS series programmable switching DC power supplies have a multi-range feature for flexible and efficient configuration of voltage and current within the rated power range. They can be connected in series (maximum two units) or in parallel (maximum three units) for higher voltage or higher current output to meet the needs of a broad range of applications.

RS CAL

UKAS - ILAC

The combination of multi-range power and series/parallel connection reduces the cost of power supply products to accommodate projects with different power requirements.

Common Information

• Constant power output for multi-range (V&I) operation
• CV/CC priority
• Adjustable slew rate
• Series and parallel operation
• High efficiency and high power density
• Over voltage protection (OVP) and over current protection (OCP)
• Standard interfaces LAN, USB, analog control
• LabView driver

Supplied with
Programming manual and user manual on CD-ROM, test lead, power cord, USB cable, basic accessories kit, output terminal cover

Specifications / Ranges / Model	IPS3036	IPS3072	IPS8040.5
RS Stock No.	123-3573	123-3574	123-3575
Power Rating (W)	360	720	1.1kW
Type	Digital	Digital	Digital
Number of Displays	1	1	1
Output Connector	Plug-in terminal block	Plug-in terminal block	Plug-in terminal block
Output Current (A)	0 → 36	0 → 72	0 →40.5
Supply Voltage (V AC)	85 → 265	85 → 265	85 → 265
Output Voltage (V)	0 → 30	0 → 30	0 → 80
Number of Outputs	1	1	1
Minimum Temperature (°C)	0	0	0
Maximum Temperature (°C)	+50	+50	+50
Size (mm)	71 × 124 × 350	142 × 124 × 350	214 × 124 × 350
Weight (kg)	3	5.3	7.5

IPS Series Switching DC Power Supplies

This IPS series of switching DC power supplies includes models IPS-1820, IPS-3610 and IPS-606. The 360W, single output models have over voltage protection (OVP) to protect power supply and load from unexpected conditions.

High regulation is maintained at 0.01%. Remote sensing adds an extra level of precision by compensating cable losses between loads. Remote control terminals enable output to be turned on or off from an external device.

These power supplies are designed for power-efficient benchtop or portable applications requiring high regulation.

Common Information

- LED type meter
- Switched mode technology
- Voltage and current can be displayed at the same time
- High regulation at 0·01%
- Constant voltage/constant current operation
- High efficiency
- High power density
- Overload and reverse polarity protection
- Remote output On/Off control
- Power source AC 115V / 230V ±15%, 50 /60Hz

Size & Weight:
128 × 151 × 295mm: 3.2kg

Supplied with:
User manual, power cord, test lead

Model	IPS1820	IPS3610	IPS606
Power Rating (W)	360	360	360
Number of Displays	2	2	2
Output Connector	Plug-in terminal block	Plug-in terminal block	Plug-in terminal block
Output Current (A)	0 → 20	0 → 10	0 → 6
Supply Voltage (V AC)	115 (±10%), 230 (±15%)	115 (±10%), 230 (±15%)	115 (±10%), 230 (±15%)
Output Voltage (V)	0 → 18	0 → 36	0 → 60
Number of Outputs	1	1	1
Temperature Range (°C)	0 - +40	0 - +40	0 - +40

IPS1820 Switching DC Power Supply	123-3577
IPS3610 Switching DC Power Supply	123-3578
IPS606 Switching DC Power Supply	123-3579

IPS1820 HD Power Supply

IPS-H series of single output linear DC power supplies includes overload and reversed polarity protection to protect DUTs from damage due to inappropriate operation.

The internal select for dynamic loads is often used for amplifier testing. It can support high pulse current derived from dynamic processes and low noise, making RS Pro IPS-H suitable for high-end benchtop applications. This is a power supply of choice for applications requiring high voltage or high current.

- 0.01% high resolution
- Constant Voltage and Constant Current operation
- Internal select for continuous or dynamic load
- Low ripple and noise performance
- Overload and reverse polarity protection
- 3 digit 0.5 inch LED voltmeter/ammeter displays
- Coarse and fine controls for voltage and current
- Can connect in series for higher output voltage
- Rear panel sense terminals

Size:
254 x 152 x 456mm

Power Rating (W)	360
Number of Displays	1
Output Current (A)	0 → 20
Supply Voltage (V AC)	100 → 240
Output Voltage (V)	0 → 18
Number of Outputs	1
Temperature Range (°C)	0 - +40

IPS1820 HD Power Supply	124-0234

Component & IC Tester

A low cost, battery powered component tester with a 3-digit LCD display and a maximum reading of 1999, making it ideal for use in field service and production environments.

Features and Benefits
- Tests: Batteries, diodes, LEDs, transistors & SCRs
- Measures resistance and capacitance
- Low battery indication and overload protection

Size & Weight:
175 mm x 84 mm x 31mm: 330g

Battery:
Alkaline battery

Supplied with:
ICT76 component tester, set of test leads (1 × black & 1 × red), operating manual and protective holster

Resistance Measurement Resolution (Ω)	0.1
Capacitance Measurement Range	20pF - 20mF
Resistance Measurement Range (MΩ)	200Ω - 20MΩ
Operating Temperature Range (°C)	0 - +50
Tester Type	Component, IC
Display Type	LCD
Battery Life (h)	200

Component & IC Tester	123-3221

LCR05 LCR Meter Chip Test Fixture

RS Pro test fixture for measuring axial and radial lead components, for use with RS Pro LCR-6000 series high precision LCR meters

Features and Benefits
- Frequency DC to 1MHz
- Maximum voltage ±35V

LCR05 LCR Meter Chip Test Fixture	123-5978

LCR15 LCR Meter Chip Test Fixture

Pro SMD/chip test fixture for use with the RS Pro LCR-6000 series high precision LCR meters.

Features and Benefits
- Frequency DC to 10MHz
- Maximum voltage ±45V
- Applicable size 0201 to 1812

LCR15 LCR Meter Chip Test Fixture	123-5980

External DC Bias Voltage Box

- For use with RS Pro LCR-6000 series high precision LCR meters (117-6718)
- Measures device under test (DUT)
- Frequency 40Hz to 1MHz
- Maximum voltage ±45V

External DC Bias Current Box	123-5982

External DC Bias Current Box

- For use with RS Pro LCR-6000 series high precision LCR meters (117-6718)
- Measures device under test (DUT)
- Frequency 40Hz to 1MHz
- Maximum current ±2.5A

External DC Bias Voltage Box	123-5981

LCR6000 Series
High Precision LCR Meter

The compact LCR6000 series meters feature a 0.05% basic accuracy, 2U half-rack size and large (3.5 inch) colour LCD. Measurement efficiency is increased by the simultaneous display on screen of not only setting criteria and measured results but also two additional monitoring parameters. The measurement results include a Pass/Fail display for fast validation.

Operators can freely change frequency, within the range of the model, so can save the time and hassle of repeating zero operations. Four models are available in this guide according to the test frequency range required. A 5th version is available with a test frequency range of up to 300kHz.

Models are supplied with safety instructions, power cord, test fixture LCR-06A, CD (user manual, PC software)

Common Information

- 3.5 inch colour LCD
- Consecutive Test Frequency
- Basic accuracy 0.05%
- Measuring speed up to maximum 25 ms
- Full frequency range or spot OPEN/SHORT
- 16 major/secondary parameter measurement combinations and 2 additional monitoring parameters (maximum 4 different parameters can be shown simultaneously)
- DCR measurement and internal DC bias voltage (±2.5V)
- PASS/FAIL validation display
- Auto Level Control (ALC) function
- BIN function provides 9BIN and 1AUX
- 10 points listed test function to select different frequency, voltage and current criteria
- RS-232C, Handler and USB storage interfaces
- Compact size (2U half-rack)

Areas of Application:
Research & Development
Production test
Component assessment
IQC for verification on component specifications

Model	LCR-6002	LCR-6020	LCR-6100	LCR-6200
Maximum Test Frequency (kHz)	2	20	100	200
Maximum Inductance Measurement (H)	9999.99			
Maximum Resistance Measurement (MΩ)	99.9999			
Maximum Capacitance Measurement (mF)	9999.99			
Display Type	LCD			
Power Source	Mains			
Bench/Handheld	Bench			
Dimentions	265 × 312 × 107mm			
Weight	3kg			

LCR6002 LCR Meter	117-6718
LCR6020 LCR Meter	117-6717
LCR6100 LCR Meter	117-6716
LCR6200 LCR Meter	117-6715

LCR1701 & LCR1703 LCR Meters

LCR1700 series hand held LCR smart meter feature innovative automatic selection technology. Their USB interface provides the convenience of external DC power supply and connection to a PC for data acquisition.

LCR1701 is supplied with alligator clips, shorting bar, battery and manual, while LCR1703 is supplied with alligator clips, shorting bar, magnetic hanging kit, 4 wires SMD test clip, DC power cable, USB cable, software CD, battery and manual.

RS CAL

LCR1701   LCR1703

Common Information

- 20000/2000-count dual digital display
- 46 segments bar graph display
- Auto selection of LCR testing
- Auto-ranging
- Auto backlit
- 0.2% basic accuracy capacitance and inductance
- Measurement parameters L.C.R.D.Q., EsR
- Testing frequency 100Hz, 120Hz, 1kHz, 10kHz, 100kHz selectable
- Parallel/serial test mode
- Sorting mode for QC

Model	LCR1701	LCR1703
Maximum Capacitance Measurement (mF)	20	20
Maximum Resistance Measurement (MΩ)	200	200
Maximum Inductance Measurement (kH)	20	20
Operating Temperature Range (°C)	0 - +50	0 - +50
Battery Life (h)	50	50
Bench/Handheld	Handheld	Handheld
Dimentions (mm)	95 × 207 × 52	95 × 207 × 52

LCR1701 LCR Meter	123-3255
LCR1703 LCR Meter	123-3254

RM804/805 Series High Precision Programmable DC Milli-ohm Meters

Our RM804/805 series DC milli-ohm meter models offer handler, RS-232C and USB device interfaces (RM804, 122-5158) plus option 01 GPIB (RM804-01, 122-5157) or standard GPIB (RM805, 122-5156).

Model RM-805 also offers drive modes DC+/DC-, pulsed, PWM, zero, for measurement applications on different materials.

Common Information

- 50 000-count
- 3.5 inch (320 × 240) TFT LCD display
- High accuracy, 0.05% precision
- 1 A test current, 1 μΩ resolution
- Fast measurement, 60 readings per second
- Four wire resistance measurement
- Temperature compensation measurement function
- Delayed measurement
- 20 sets of panel setting memory
- Interface - USB device, RS-232C, Handler/Scan/EXT I/O, and GPIB (option)

Model	RM-805	RM-804-01	RM-804
Maximum Resistance Measurement	5MΩ	5kΩ	5MΩ
Resistance Measurement Resolution (μΩ)	1	1	1
Power Source	Mains	-	Mains
Measurement Type	4 Wire	-	4 Wire
Maximum Accuracy (%)	+0.2	-	+0.2
Minimum Accuracy (%)	0.05	-	0.05
Operating Temperature Range (°C)	-50 - +399.9	-	-50 - +399.9
Handheld	Yes	-	Yes
Dimensions (mm)	223 × 102 × 283	-	223 × 102 × 283
Weight (kg)	4	3	4

RM-805 High Precision Programmable DC Milli-ohm Meters	122-5156
RM-804-01 High Precision Programmable DC Milli-ohm Meters	122-5157
RM-804 High Precision Programmable DC Milli-ohm Meters	122-5158

DM-9023 Handheld Capacitance Meter

RS CAL

The handheld DM-9023 is a great value capacitance meter featuring an 18mm high 2000-count LCD display. Lead capacitance may be nulled out with the instrument's front panel zero adjust facility.

Features and Benefits
- Nine rotary switch selectable ranges, covering 200µF to 20000µF
- Accuracy 200pF - 2000µF ±1% FS ±1 digit, 20kµF ±2% FS ±2 digits

Areas of Application
- Laboratory applications
- Field service applications

Size & Weight:
87 × 39 × 185mm: 290g

Power Source:
9V Battery

Supplied with:
instructions, test lead set, rubber holster, 9V PP3 alkaline battery

Maximum Capacitance Measurement (µF)	20000
Operating Temperature Range (°C)	0 - +50
Battery Life (h)	100 (Carbon Zinc), 200 (Alkaline)
Bench/Handheld	Handheld
Display Type	LCD

DM-9023 Handheld Capacitance Meter	123-8770

ILOM508A Milliohm Meter

RS CAL

- 3 digit, LCD display with max reading of 1999 and decimal point and measurement unit
- Overload indication 'OL'
- Zero adjust knob
- Low battery indication
- Operating temperature and RH value 5 °C to 40 °C, 80% RH or lower
- Storage temperature and RH value -10 °C to 60 °C, 70% RH or lower

- Power supply 1.5V x 6 NEDA 15F IEC R6 JIS SUM-3
- AC input voltage 100 Vac to 240 Vac 0.3 A with input frequency of 60Hz or 50Hz
- Free voltage DC output 9V DC (8~11 VDC maximum)
- Fuse protection 2 A/25V (5mm x 20 mm), fast minimum interrupt ratings 1500A
- Supply current >0.5A

Size & Weight:
160 × 100 × 52 mm: 700g

Power Source:
Battery

Supplied with:
Set of test clips, instruction manual

Maximum Resistance Measurement (kΩ)	20
Resistance Measurement Resolution (mΩ)	0.1
Measurement Type	4 Wire
Accuracy	± (0.3% of reading + 1 digit)
Reading speed	2.5 times per second
Open-terminal voltage	1.0 V maximum
Handheld	Yes
Maximum Accuracy (%)	±0.3 % +1 digit

ILOM-508A Milliohm Meter	124-0940

LCR1707 Meter Tweezer

The LCR1707 is a great value component tester offering basic parameters L, C, R, D, Q, EsR and testing frequency 100Hz, 120Hz, 1kHz, 10kHz, 100kHz. Advanced features include data hold mode, zeroing mode, parallel/serial test mode, self calibration mode, external DC power operation and USB interface.

Features and Benefits
- 20 000-count digital display
- Auto selection of LCR testing, auto ranging
- Sampling rate 1.25 times/second
- Low battery indication
- Auto power off (approximately 10 minutes)
- Tweezers easy testing

Size & Weight:
38 × 168 × 23 mm: 70g

Note
Power requirement is Li-ion 400 mAh battery or Ext. DC 5 V mini-USB plug

Supplied with
Li-ion battery (installed), flat tip probe, bend tip probe, AC adapter, USB cable, software (on CD-ROM), user manual, carrying case

Measurement Parameters - DCR	L, C, R, D, Q, θ, DCR
Testing Frequency (Hz)	100Hz/120Hz/1kHz/ 10kHz/100kHz
Basic Accuracy - Capacitance (%)	0.5
Basic Accuracy - Inductance (%)	0.5

LCR1707 Meter Tweezer	123-8652

AVM01 Anemometer

- Sensitive and accurate
- Ultra low-friction sapphire jewel bearing
- Low power consumption
- Data/Max hold function
- Built-in low battery indicator

- Temperature sensor K-type thermocouple
- 2 m coiled cable and in x 20 mounting nut for long extension

Size & Weight:
66 × 29.2 × 132 (Vane) mm,
88 × 26.2 × 168 (Meter) mm: 350g

Power source:
9hV Battery

Supplied with:
Carrying case, user manual,
9hV battery

Maximum Air Velocity	45m/s, 88 knots, 100mph, 140km/h, 8800ft/min
Air Velocity Resolution	0.1km/h, 0.1knots, 0.1m/s, 0.1mph, 10ft/min
Operating Temp. Range (°C)	0 to +50 (Meter), 0 to +60 (Vane)
Battery Life (h)	50

AVM-01 Anemometer	123-2202

AVM09 Anemometer

- Optional measurement parameters of m/s, Knots, ft/min, km/hr or mph
- Dual LCD 4 digit display
- Instant, average and maximum flow measurement
- Max/Min/Hold

- Auto power off
- 66mm diameter vane sensor on flexible 1m cable
- Resolution: 0.1 (0.1/1 for air velocity) and 0.2 for temperature
- RS-232 output

Size & Weight:
66 × 29.2 × 132 (Vane) mm,
88 × 26.2 × 168 (Meter) mm: 350g

Power source:
9V Battery

Support Accessories:
Portable thermal dot matrix printers for results printout

Maximum Air Velocity	45m/s, 88 knots, 100mph, 140km/h, 8800ft/min
Air Velocity Resolution	0.01m/s, 0.02 knots, 0.02mph, 0.04km/h, 2ft/min
Operating Temp. Range (°C)	0 to +50 (Meter), 0 to +60 (Vane)
Battery Life (h)	50

AVM-09 Anemometer	123-2203

RS1340 Anemometer

- Fast response probe
- Air flow volume
- Instant / Average / 2/3V max flow measurement
- Velocity m/s, ft/min, knots, km/hr, mph, Beaufort (Bft)

- Data hold & Maximum / Minimum / Average function
- Manual data memory and read function (5 × 99 sets)
- Auto data memory and read function (5× 99 sets)

Size & Weight:
72 × 35 × 150mm: 235g

Power Source:
1.5V AAA Battery

Supplied with:
User manual, 1.5V AAA battery (X6), carry case

Maximum Air Velocity	30m/s, 59 knots, 68mile/h, 110km/h, 6000ft/min, 999900ft³/min, 999900m³/min
Air Velocity Resolution	0.001ft³/min, 0.001m³/min, 0.01knots, 0.01mile/h, 0.1km/h, 0.1m/s, 1ft/min
Operating Temp. Range (°C)	0 to +50
Battery Life (h)	10

RS1340 Anemometer	123-2224

Gas Detector

- Visual bar LED display panel
- Audible indication

Areas of Application
- Building fabric
- Conveyance pipes and conduit
- Seals, connections, fittings

Size:
70 × 28 × 255mm

Power Source:
9 V Battery

Supplied with:
User manual, ear pieces, accessories for use in awkward places, moulded case

Operating Temp. Range (°C)	0 - +50
Meter Type	Handheld
Display Type	LED
Audible Alarm	Yes
Visual Alarm	Yes

Gas Detector	123-8775

ILM Series Lightmeters

The ILM Series is a great value digital light meter with spectral sensitivity close to the CIE photopic standard curve.

RS CAL

Common Information

- Spectral sensitivity close to CIE photopic curve
- Accurate and instant response
- Data Hold function
- Max/Min function

Supplied with
Carrying case, user manual, battery

Specifications / Ranges / Model	ILM1332A	ILM1335	ILM1337	ILM01	ILM201L
RS Stock No.	123-2220	123-2221	123-2222	123-2223	124-0938
Light Level Range (lx)	0.01 - 200000	0 - 400000	0 - 20000	0.01 - 500	0 - 200000
Best Accuracy (%)	±3	±3 ± 0.5 digits	±3 + ±5 digits	±3 + ±5 digits	±3
Resolution (lx)	0.1	0.01	0.01	0.01	-
Operating temperature Range (°C)	0 - +40	0 - +40	0 - +50	0 - +50	-
Battery Life (h)	200	400	400	100	-
Power Source	9V battery	AAA battery	AAA battery	AAA battery	9V battery
Sensor Type	Photodiode	Photodiode	-	Photodiode	Photodiode
Dimensions (mm)	72 × 33 × 135	72 × 35 × 150	72 × 35 × 150	72 × 35 × 150	55 × 38 × 130
Weight (g)	250	320	320	320	250
Features	Accurate, Data hold, Instant response	Accurate, Auto power off function, Data hold, Instant response, Peak hold function, Relative function	Accurate, Data hold, Instant response	Accurate, Auto Power off function, Data hold, Instant response, Point average function	Manual ranging, Manual zero adjustment, Max hold

LX-105 Light Meter

- Display hold function
- 3 ranges/times covered
- Auto power down
- RS-232 serial interface
- Zero adjustment
- Dual LCD display with contrast control

RS CAL

Size:
180 × 72 × 32mm

Power Source:
9V PP3 battery (Not supplied)

Supplied with:
User manual, sensor with protective cover

Features	Memory Recall Button, Push Button 4 Light Type Select
Display	13mm LCD
Measurement (Lux)	0 – 50000
Measurement (Fc)	0 – 5000
Sampling Time (s)	0.4

LX-105 Light Meter	123-8776

IM-195 Field Emission Detector

This three axis RF field strength meter IM-195 is a great value instrument designed for measuring and monitoring Radio Frequency (RF) electromagnetic field strength.

• Dimentions: 60 × 60 x195mm

Frequency range	50MHz to 3.5GHz
Radiation Type	RF Field
Power Source	9V Battery
Battery Life	15h
Operating humidity range	25% to 75% RH
Temperature Range	0°C to +50°C

IM-195 Field Emission Detector	106-5307

IM-191 Gauss Meter

RS Pro magnetic field meter IM-191 is a great value instrument for measuring electromagnetic fields of extremely low frequency.

• Dimentions: 130 × 56 × 38mm
• Display 3-1/2 digits LCD, maximum reading 1999
• Display range 20, 200, 2000

Magnetic Range	20 → 200 µT, 200 → 2000mG
Best Accuracy	±2.5 %
Resolution	0.01 µT, 0.1mG
Frequency Range	30 → 300Hz
Battery Life	100h
Temperature Range	5°C to +40°C

IM-191 Gauss Meter	106-5309

IEMF190 Gauss Meter

• Compact, lightweight instrument (dimensions 115 × 60 × 21mm, weight approximately 120g)
• 4 digits, 2.4 inch colour TFT LCD
• 3 measurements in one meter: Electromagnetic field (3-axis); Electric field; RF strength field

• Data hold (HOLD)
• Language selection (choose your language): English; Traditional Chinese; Simplified Chinese; Japanese; Spanish

Size & Weight:
60 × 21 × 115mm: 120g

Supplied with:
Batteries (1.5V AAA x 3), English language manual

Note:
TM-190 can be powered via USB mini-B (5 pin) connection, user's external power supply (voltage DC 4.8 ~ 5.2 V; current greater than 500mA)

Magnetic Range	0.02 → 200µT, 0.02 → 2000mG
Best Accuracy (%)	±15 + 100 digits
Resolution	0.01 mG, 0.01µT
Frequency Range	Maximum of 60Hz
Operating temperature Range (°C)	+5 to +40
Battery Life (h)	8

IEMF190 Gauss Meter	124-0939

ISM 400 / ISM 410 Solar Power Meter

RS Pro ISM 400 measures radiated and transmitted solar power at an installation to identify the optimum positioning and alignment of solar panels.

Calculations include total solar energy against elapsed time or average solar energy per hour. The instrument can determine the percentage solar power transmission through glass, heat insulation materials and devices such as sunshades.

Common Information

• Spectral response 400 -1000nm
• Full cosine correction for the angular incidence of the solar illumination
• Select either W/m2 or Btu/ (ft2 × h) units
• Data HOLD/ MAX/ MIN / AVG modes
• Manual data memory and read functions (99 sets)
• Elapsed time clock

Supplied with:
User manual, AAA alkaline batteries (x4), tripod mounting screw

Size & Weight:
64 × 34 × 110mm: 158g

Model	ISM 410	ISM 410
Angular Accuracy	<5%	<5%
Best Accuracy	±3 Btu/ft² x h, ±5W/m²	±3 Btu/ft² x h, ±5W/m²
Maximum Light Level	634 Btu/ft² x h, 2000W/m²	634 Btu/ft² x h, 2000W/m²
Resolution	0.1 Btu/ft² x h, 0.1W/m²	0.1 Btu/ft² x h, 0.1W/m²
Operating temperature Range (°C)	0 to +50	0 to +50
Battery Life (h)	100	100
Test Type	Solar power	Solar power
Features	Automatic transmission measurement, Long term stability, Wide spectral range	Automatic transmission measurement, Long term stability, Wide spectral range

ISM 400 Solar Power Meter	123-2218
ISM 410 Solar Power Meter	123-2219

SLM Series Sound Meter

The great value SLM52N is an easy-to-use sound level meter designed to meet the requirements of health and safety officers for sound level monitoring in industrial and office environments. Both AC and DC signal outputs are available from a single standard 3.5 mm coaxial socket suitable for use with a frequency analyser, level recorder, FFT analyser or graphic recorder.

Common Information

- Autoranging sound level meter
- Alarm setting facility ('over' and 'under' limits)
- USB data interface

Size: 265 × 72 × 36mm

Weight: 380g

Supplied with: 1.5 V LR-6/AA size cell (x4), user manual, carrying case, adjustment screwdriver, software ,wind shield, USB connecting cable, plug

Model	SLM1352P	SLM52N	SLM1353M
Frequency Range	31.5Hz - 8kHz	31.5Hz - 8kHz	31.5Hz - 8kHz
Sound Level Range (dB)	30 - 130	30 - 130	30 - 130
Accuracy Class	-	ANSI S 1.4: 1983 Type 2, IEC 61672:2013 Class 2	ANSI S 1.4: 1983 Type 2, IEC 61672:2013 Class 2
Operating Temperature Range (°C)	-10 - +50	-10 - +50	-10 - +50
Resolution (dB)	0.1	0.1	0.1
Interface Type	USB	-	USB
Display Type	LCD	LCD	LCD
Data Logging	Yes	-	Yes
Battery Type	AA, LR6	9 V Battery	AA

SLM1352P Sound Level Meter	122-4294
SLM52N Sound Level Meter	123-2225
SLM1353M Sound Level Meter	123-2226

NDM Series Sound Meter

RS Pro NDM series personal noise dose meter is designed to be carried by individuals moving between areas of varying noise levels and to provide unsupervised exposure assessments of the working environment. It does this by measuring accumulated noise exposure.

Common Information

- Pocket size and lightweight
- Accurate and very easy to use
- Measures % noise dose, exposure time, sound level
- Security lock (Power off)
- Peak 140dBA & 115dBA RMS flags
- Stores data up to 5 separate events
- Real-time clock calendar/RS-232 interface

Size: 106 × 64 × 34mm

Weight: 350g

Supplied with: Carry case, calibration screwdriver, AAA batteries (x4), user manual, software for Windows, RS-232 cable

Model	NDM1354	NDM1355
Frequency Range	20Hz - 10kHz	20Hz - 10kHz
Weighting	A	A
Display Type	LCD	LCD
DOSE Measurement	Yes	Yes
Operating Temperature Range (°C)	0 - +50	0 - +50
Battery Type	AAA	AAA
Resolution (dB)	0.1	0.1

NDM1354 Personal Noise Dose Meter	123-2227
NDM1355 Personal Noise Dose Meter	123-2228

1361C Humidity and Temperature Data Logger

RS CAL

- Dual display LCD/clock
- Data memory and read function direct from the display (150 sets)
- 7900 record data-logging capacity (dual reading)
- USB interface
- Power supply 006P 9V or IEC6F22, NEDA 1604 battery

Size & Weight:
270 × 68 × 25mm: 200g

Power Source:
9V Battery

Supplied with:
Battery, Carrying case, Data download Software, Instruction manual, RS-232 cable

Sensor Type	Capacitive, semiconductor
Operating Temperature Range (°C)	0 - +60
Max Temperature Measurement	+60°C / +140°F
Max Humidity Measurement	95%RH
Number of Readings Per Channel	255
Battery Life (h)	100

1361C Humidity and Temperature Data Logger	123-2231

1365 Humidity and Temperature Data Logger

RS CAL

- Detachable sensing probe
- Data hold and relative function
- Dual LCD display with bar graph indication
- Dew point readings
- Wet bulb reading
- Max/Min with time stamp
- Datalogging capacity 15 000 dual reading (% RH & temperature)
- Automatic timer recording for datalogger
- USB interface
- °C/°F selectable

Size & Weight:
150 × 72 × 35mm: 235g

Power Source:
AAA Battery

Supplied with:
Battery, Instruction manual, RS-232 to USB optical cable & software

Sensor Type	Probe
Operating Temperature Range (°C)	0 - +60
MaX Temperature Measurement	+60°C / +140°F
Max Humidity Measurement	95%RH
Number of Readings Per Channel	99 (Manual), 15000 (Continue record)
Battery Life (h)	200

1365 Humidity and Temperature Data Logger	123-2234

1384 4-input Data Logging Thermometer

RS CAL **UKAS - ILAC**

- Isolated Input Protection of 350 Vp-p between any two inputs
- Highly accurate thermometer with thermocouple K, J, E, T, R, S, N, L, U, B, C types
- 4 input function T1/T2/T3/T4 temperature display
- Programmable High / Low alarm for 4 inputs
- Display of MAX, MIN and MAX–MIN values of 4 inputs
- Independent input setup (type of thermocouple, High / Low alarm values)
- Memory and read function (99 sets)
- 512KB auto data logging capacity
- USB interface

Size & Weight:
187 × 73 × 53mm: 405g

Power Source:
AA battery

Supplied with:
Battery, Carrying case, Instruction manual, Software CD, Type K thermocouples, USB cable

Measurement Parameters	Temperature
Sensor Type	B, C, E, J, K, L, N, R, S, T, U
Operating Temperature Range (°C)	0 - +50
Number of Readings Per Channel	99 (Set), 36000 (4 input), 100000 (1 input)
Battery Life (h)	55

1384 4-input Data Logging Thermometer	123-2235

1300 Series Thermometers

The RS Pro 1300 Series is a great value 2-channel thermometer with selectable temperature and thermocouple types.

RS CAL **UKAS - ILAC**

Common Information

- Warning alarm with HI/LO setting
- Max/Min with time
- Max-Min average function
- Display hold
- oC /oF / K selectable
- LCD display with backlight
- Dual input function T1/T2 temperature display
- Highly accurate thermometer with selectable thermocouple types

Supplied with
AAA batteries (x6), user manual, CD software, optical USB interface cable

Size & Weight:
152 × 72 × 37mm: 235g

Specifications / Ranges / Model	1313	1314	1315	1316	1319A
RS Stock No.	123-2211	123-2212	123-2213	123-2214	123-2215
Absolute Maximum Temperature Measurement	+400 (T) °C, +870 (E) °C, +1090 (J) °C, +1300 (N) °C, +1370 (K) °C, +1767 (R) °C, +1767 (S) °C	+400 (T) °C, +870 (E) °C, +1090 (J) °C, +1300 (N) °C, +1370 (K) °C, +1767 (R) °C, +1767 (S) °C	+400 (T) °C, +870 (E) °C, +1090 (J) °C, +1300 (N) °C, +1370 (K) °C, +1767 (R) °C, +1767 (S) °C	+400 (T) °C, +870 (E) °C, +1090 (J) °C, +1300 (N) °C, +1370 (K) °C, +1767 (R) °C, +1767 (S) °C,	+1300 °C
Best Accuracy	± 0.05 % + 2 (S) °C, ±0.05 % + 0.5 (E) °C, ±0.05 % + 0.5 (J) °C, ±0.05 % + 0.5 (K) °C, ±0.05 % + 0.5 (N) °C, ±0.05 % + 0.5 (T) °C, ±0.05 % + 2 (R) °C	± 0.05 % + 2 (S) °C, ±0.05 % + 0.5 (E) °C, ±0.05 % + 0.5 (J) °C, ±0.05 % + 0.5 (K) °C, ±0.05 % + 0.5 (N) °C, ±0.05 % + 0.5 (T) °C, ±0.05 % + 2 (R) °C	± 0.05 % + 2 (S) °C, ±0.05 % + 0.5 (E) °C, ±0.05 % + 0.5 (J) °C, ±0.05 % + 0.5 (K) °C, ±0.05 % + 0.5 (N) °C, ±0.05 % + 0.5 (T) °C, ±0.05 % + 2 (R) °C	± 0.05 % + 2 (S) °C, ±0.05 % + 0.5 (E) °C, ±0.05 % + 0.5 (J) °C, ±0.05 % + 0.5 (K) °C, ±0.05 % + 0.5 (N) °C, ±0.05 % + 0.5 (T) °C, ±0.05 % + 2 (R) °C	0.3 % ± 1 °C
Resolution	0.1 (E) °C, 0.1 (J) °C, 0.1 (K) °C, 0.1 (N) °C, 0.1 (T) °C, 1 (R) °C, 1 (S) °C	0.1 (E) °C, 0.1 (J) °C, 0.1 (K) °C, 0.1 (N) °C, 0.1 (T) °C, 1 (R) °C, 1 (S) °C	0.1 (E) °C, 0.1 (J) °C, 0.1 (K) °C, 0.1 (N) °C, 0.1 (T) °C, 1 (R) °C, 1 (S) °C	0.1 (E) °C, 0.1 (J) °C, 0.1 (K) °C, 0.1 (N) °C, 0.1 (T) °C, 1 (R) °C, 1 (S) °C	0.1 °C
Temperature Scale	Centigrade, Fahrenheit, Kelvin	Centigrade, Fahrenheit, Kelvin	Centigrade, Fahrenheit, Kelvin	Centigrade, Fahrenheit, Kelvin	Centigrade, Fahrenheit
Data Storage	-	-	Yes	Yes	Yes
Probe Type	E, J, K, N, R, S, T	E, J, K, N, R, S, T	E, J, K, N, R, S, T	E, J, K, N, R, S, T	K
Battery Type	AAA	AAA	AAA	AAA	AAA
Number of Temperature Inputs	1	2	1	2	1
Minimum/Maximum Recordings	Yes	Yes	Yes	Yes	Yes
Thermometer Type	-	Handheld	Handheld	Handheld	Handheld

TG301 Thermal Imaging IR Thermometer

RS CAL

- One navigator key operation
- 16384 pixels (128 × 128 pixels) thermal image after interpolation
- Distance/Spot ratio 30:1 with precise laser indication
- Compact UV refrigerants leak detector with 5 UV/Blue LEDs
- Bright flashlight with 5 white LEDs
- SD memory card interface and micro USB connection for picture storage and download to a PC
- Ergonomically designed pistol grips

- 160 × 128 pixel 1.77" TFT-LCM display
- CMOS overlapped IR-REXTM technology
- Powered by 3 × AA size batteries
- Accuracy: ±1.5°C or ±-1.5% of reading, ±2.0°C at -10°C to 0°C, ±3.0°C at -30°C to -10°C
- Display resolution: 0.1°C
- Battery life: 12 hours
- Laser safety: EN 60825-1: 2014 Class II

Size & Weight:
185 × 51 × 100 mm: 300g

Power Source:
AA Battery

Supplied with:
Soft carry holster, 2 GB SD memory card, 3 AA alkaline batteries and Instruction manual

Measuring Range	-30°C to 650°C
Distance to Spot Ratio	30:1
Best Accuracy	±3 °C
Temperature Scale	Centigrade, Fahrenheit
Operating Temperature Range	-10°C to 50°C
Resolution	0.1 °C
Response Time	<300ms

TG301 Thermal Imaging IR Thermometer	**918-1085**

IT-1 Infrared Thermometer

RS CAL

- Large-scale LCD display infrared thermometer
- Single point laser sighting
- Integrated non-contact AC voltage detection 60V AC → 600V AC with LCD indication
- Ultra bright white LED torch

- Single AAA size battery operation
- Pocket clip designed for easy carrying

Resolution: 0.1°C

Size & Weight: 20 × 29 × 100mm: 40g

Response Time: 0.5s

Power Source: AAA Battery

Absolute Max Temperature Measurement	+500 °C, +932 °F
Temperature Scale	Centigrade, Fahrenheit
Distance to Spot Ratio	8:1
Best Accuracy	±1 °C, ±2 °F
Emissivity	0.95

IT-1 Infrared Thermometer	**123-3250**

RS1327 / RS1327K Infrared Thermometer

RS CAL

A pocket-sized, easy-to-use pistol grip IR thermometer for making surface temperature measurements. It has a built-in laser to assist in sighting the sensor. Its Liquid Crystal Display has a backlight function which can be turned on to assist measurements made in dark places.

Supplied with PP3 battery, wrist strap, belt holster and user manual

Common Information

- Built-in laser sighting
- Backlit LCD display
- Auto hold
- Max / Min reading
- Adjustable emissivity
- High/Low audible and visible alarm (presettable)
- Data memory (50 measurements) and read function

Size & Weight:
172 × 118 × 46mm: 220g

Model	RS1327	RS1327K
Absolute Maximum Temperature Measurement	+500 °C, +932°F	+1350 °C, +1999°F
Temperature Scale	Centigrade, Fahrenheit	Centigrade, Fahrenheit
Best Accuracy	±2 %	±0.1 %
Emissivity	0.17 → 1	0.17 → 1
Distance to Spot Ratio	12:1	12:1
Data Storage	Yes	Yes
Resolution	+0.1°C, +0.2°F	+0.1°C, +0.1°F

RS1327 Infrared Thermometer	**123-2216**
RS1327K Infrared Thermometer	**123-2217**

RS50 Series Digital Thermometers

RS CAL **UKAS - ILAC**

The digital hand held thermometer is suitable for environmental test and measurement. The RS350 series have an easy to read LCD display and optional measurement preference. The choice of data loggers can be based on many factors. RS Pro 51 offers a large display count of up to 1999.

They also benefit from having a real-time stamp feature for minimum, maximum and average measurements. Our unique range of hand held thermometers offer you the choice of calibration types and temperature measuring preference to suit your needs at affordable prices.

Common Information

- Two Type K bead thermocouples supplied
- Reading hold function
- Dual thermocouple input
- Differential temperature (T1-T2)
- °C or °F display

Note
The values given indicate the specified model's total capability. All figures are dependent upon the thermocouple type being used. See the technical specifications for further information.

Model	RS51	RS52	RS53	RS55
RS Stock No.	123-3558	123-3559	123-3560	123-3561
Temperature Inputs	1	2	1	2
Absolute Maximum Temperature Measurement	+1300°C, +1999°F		+1372°C, +2501°F	
Thermometer Type	Handheld			
Best Accuracy	±0.3 %		±0.1 %	
Probe Type	K		J, K	
Data Storage	Yes		Yes	
Resolution	0.1°C, 0.2°F		0.1 K, 0.1°C, 0.2°F	
Min/Max Recordings	Yes			
Temperature Scale	Centigrade, Fahrenheit			
Battery Type	9V Alkaline			
Dimentions	74 × 39 × 170mm			
Weight	430g			
Supplied with	Protective holster with stand, belt clip, PP3 battery and instruction manual			

TC920 K-type Temperature Calibrator

RS CAL

- 3 digit 2000 count LCD
- Adjustable -199.9 to +1230°C temperature simulation and measure, ±(1 → 0.75% +2 → 1°C) low to high temperature ranges
- Standard type K (NiCr - NiAl) sockets
- Built-in temperature linearity compensation circuitry
- Data hold feature
- RS-232

Resolution: 0.1°C

Size: 78 × 38 × 185mm

Supplied with:
Alkaline PP3 battery, test leads

Power Source: Alkaline PP3 battery

K Type Thermocouple Temperature Range	-325 → +2246°F, -199 → +1230°C
Temperature Scale	Centigrade, Fahrenheit
Thermocouple Type	K
Best Accuracy	±2°C

TC920 K-type Temperature Calibrator	123-8772

RS1260 Digital Humidity Meter

RS CAL **UKAS - ILAC**

RS Pro 1260 is a great value digital humidity meter with features not normally available at this price.

Features and Benefits

- Dual LCD display
- Dew point reading
- Wet bulb reading
- Max/Min with time stamp
- Data hold function
- °C & °F switchable
- DATA memory and read function (99 readings from LCD display)
- Auto power off

Size & Weight:
193 × 59 × 26mm: 140g

Power Source:
9V Battery

Supplied with:
User manual, 9V battery.

Maximum Measurement	99%
Best Accuracy	±0.5 (Temperature) °C, ±3 (Humidity) %
Display Type	Digital
Battery Life	200h
Operating Temperature Range (°C)	0 - +60

RS1260 Digital Humidity Meter	123-2210

RS1360A Thermohygrometer

RS CAL

Model 1360A is a great value, very convenient and feature-rich humidity and temperature meter. It offers a wide range of relative humidity and temperature measurement (°C & °F), instant performance of humidity measurement (by precision thin-film capacitance sensor) and high resolution of 0.1% RH, 0.1 °C & 0.1 °F.

Features and Benefits

- Dual display
- Robust, compact and easy to use
- °C / °F selectable
- Dew point reading
- Data hold measurement
- Data memory and read function (99 sets)
- Auto power off function

Size & Weight:
270 × 68 × 25mm: 210g

Power Source:
9V Battery

Supplied with:
User manual, 9V PP3 battery, soft carrying case

Maximum Temperature Measurement	+60°C, +140°F
Maximum Humidity Measurement	95%RH
Best Temperature Measurement Accuracy	±0.4°C, ±0.8°F
Temperature Measurement Resolution	0.1°C, 0.1°F
Best Humidity Measurement Accuracy	±3 %RH
Humidity Measurement Resolution	0.1%RH
Meter Type	Handheld
Functions	Dew point, Hold, Memory, Read
Battery Life	140h
Operating Temperature Range (°C)	0 - +60

RS1360A Thermohygrometer	123-2230

1362 Triple Input Printing Thermohygrometer

The 1362 is a great value, feature-rich 3-input printing thermohygrometer. It has a triple LCD display for % RH, T1 for air temperature and T2 for type K thermocouple input temperature. It can print on demand or at pre-set time intervals.

Features and Benefits

- Dew point reading
- Max/Min and Data hold
- Real time stamp
- °C/°F selectable

Size & Weight:
193 × 74 × 37mm: 430g

Power Source:
AAA Battery

Supplied with:
Hard carrying case, user manual, AAA batteries (x6), type K probe, humidity/temperature probe, thermo-paper (2 rolls)

Maximum Temperature Measurement	+60 (Type1) °C, +140 (Type1) °F, +1333 (Type2) °C, +2431 (Type2) °F
Maximum Humidity Measurement	95%RH
Best Temperature Measurement Accuracy	±0.1 %, ±0.8 °C, ±1.5 °F
Temperature Measurement Resolution	0.1 °C, 0.1 °F
Best Humidity Measurement Accuracy	±3 %RH
Functions	Dew point, Hold, Maximum & Minimum display
Battery Life	90h, 100 (Except printing & beeper) h
Operating Temperature Range (°C)	0 - +50

1362 Triple Input Printing Thermohygrometer	123-2232

1364 Humidity and Temperature Meter

RS CAL   **UKAS - ILAC**

The 1364 is a great value humidity and temperature meter with measuring ranges 10% to 95% RH (humidity) and -20 to +60°C (temperature), resolution 0.1% RH / 0.1°C.

Features and Benefits
- Detachable sensing probe
- Data hold and relative function
- Dual LCD display with bar graph indication
- Dew point readings
- Wet bulb reading
- Max/Min with time stamp
- °C/°F selectable

Size & Weight:
150 × 72 × 35mm: 235g

Power Source:
AAA Battery

Supplied with:
Probe, user manual, AAA batteries (x6), carrying case

Maximum Temperature Measurement	+60 °C, +140 °F
Maximum Humidity Measurement	95%RH
Best Temperature Measurement Accuracy	±0.5 °C, ±0.9 °F
Temperature Measurement Resolution	0.1 °C, 0.1 °F
Best Humidity Measurement Accuracy	±3 %RH
Humidity Measurement Resolution	0.1%RH
Functions	Dew point, Hold, Maximum & Minimum display, Record, Relative, Wet bulb
Battery Life	200 h
Operating Temperature Range (°C)	0 - +60

1364 Humidity and Temperature Meter	123-2233

1160 & 1161 Thermo / Hygro / Barometers with Auto Data Logger

Triple tier LCD displays combined barometric pressure, temperature and relative humidity.

Other readings consist of: dew point, wet bulb temperature, absolute humidity, mixing ratio, enthalpy, water vapour and saturation pressure, barometric pressure trend and tendency, heat index and humidex.

Common Information

- Maximum and minimum readings with time stamp
- Comparator function
- Alarm output function
- Auto power-off function
- Data hold
- Manual data memory and read
- Auto data logger function (Auto Data Logger)
- USB interface (Auto data logger)

Weight:
178g

Functions:
Alarm, Comparator, Data hold

Power Source:
NEDA 1604, 006P 9V battery

Battery Life:
2 months

Model	1160	1161
Absolute Maximum Temperature Measurement	+100°C, +212°F	+100°C, +212°F
Maximum Humidity Measurement	100%RH	100%RH
Best Temperature Measurement Accuracy	±0.4°C, ±0.8°F	±0.4°C, ±0.8°F
Temperature Measurement Resolution	0.1°C, 0.1°F	0.1°C, 0.1°F
Best Humidity Measurement Accuracy	±3 %RH	±3 %RH
Humidity Measurement Resolution	0.1%RH	0.1%RH
Meter Type	Handheld	Handheld
Interface Type	USB	USB
Functions	Alarm, Comparator, Data hold	Alarm, Comparator, Data hold
Operating Temperature Range (°C)	0 - +60	0 - +60

1160 Thermo / Hygro / Barometer	127-8296
1161 Thermo / Hygro / Barometer with Auto Data Logger	127-8297

The RS Seal of Approval - a sure sign of quality

Every RS Pro product comes backed by the RS Seal of Approval.

RS engineers, in our labs, ensure all our products have been rigorously audited, inspected and tested to the appropriate industry standard.

The majority of the RS Pro range comes with a 3 year warranty to make our customers even more confident with our quality.

3 YEAR WARRANTY

AUDITED
In compliance with industry standards

INSPECTED
For guaranteed quality and performance

RS APPROVED
RS APPROVED

TESTED
By leading engineers

RS PRO