

FEATURES

- 50 000 counts
- Vacuum Fluorescent Display (VFD) with 2 colours
- Dual measurement
- Fast measurement rate
- 0.02% DCV basic accuracy
- Manual and auto-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
- LCD display - readouts can be viewed

RS PRO Digital Multimeters - IDM8342 Bench Digital Multimeter

RS Stock No.: 1233536



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

RS Pro IDM-8300 Series Dual Measurement Multimeters

RS PRO IDM-8300 Series bench digital multimeters (DMM) include 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 a connection to a PC.

RS PRO IDM-8300 Series models IDM-8341 ([123-3535](#)) and IDM-8342 ([123-3536](#)) offer typical multimeter capabilities plus capacitance measurement. Model IDM-8342 offers, in addition, temperature measurement and USB storage for data collection and GPIB (general purpose interface bus). GPIB offers the IEEE 488 standard digital 8-bit parallel communications interface for automatic measurement and convenient data save and retrieval.

The RS PRO range of handheld and bench digital multimeters are great value for money and also high quality you can rely on.

General Specifications

Model Number (p)	IDM8342
Multimeter Type	Bench
Functions Measured	AC Current, AC Voltage, Capacitance, Continuity, DC Current, DC Voltage, Diode Test, Frequency, Resistance, Temperature
True RMS	Yes
Display Type	LCD
Operating Temperature (Min to Max)	0~50°C
Storage Temperature (Min to Max)	-10°C to 70°C
Surge protection	Humidity: 0~35°C: <90%RH >35°C: <80%RH
Diode Test	Yes
Continuity Test	Yes
Maximum Reading Rate	Fast Measurement Rate Up to 40 readings/s for DCV Records the accumulative number of readings that are recorded in that file, up to the maximum of 50,000.
Memory Capacity	32GB Max record count in a recording: 5,000,000 records
IO Interface	USB / Optional GPIB

Measurement

Type	Absolute Maximum Measurement	Resolution	Best Accuracy
DC Current	10A dc	10nA	±0.05% + 4 Digits
AC Current	10A ac	10nA	±0.5% + 20 Digits
Resistance	50MΩ	10mΩ	±0.1% + 3 Digits
DC Voltage	1000V dc	10μV dc	±0.02% + 4 Digits
AC Voltage	750V ac	10μV ac	0.35%
Capacitance	50μF	0.1°C	±2% + 4 Digits
Temperature	+300°C	0.001nF	2 °C

Electrical Specifications

Battery Type	1.5 V AAA
Safety Category Voltage	600V

Mechanical Specifications

Dimensions	265 x 302 x 107mm
Width	302mm
Length	265mm
Height	107mm
Weight	2.9kg

Protection Category

Safety Category Level	CAT II, CAT III, CAT IV
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Approvals

Declarations	RoHS Certificate of Compliance
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Similar Products

Stock No.	Brand	Product Name	Multimeter Type	Functions Measured	Digit Resolution
144-5337	RS PRO	HS608 MeterScope Handheld Digital Multimeter	Handheld	AC Current, AC Voltage, Capacitance, DC Current, DC Voltage, Frequency, Resistance, Temperature	
124-1960	RS PRO	IDM505 Handheld Digital Multimeter	Handheld	AC Current, AC Voltage, Capacitance, Continuity, DC Current, DC Voltage, Diode, Duty Cycle, Frequency, Resistance, Temperature	