

FEATURES

- Dual measurement
- Max/Min, REL, MX+B, 1/X, Ref%, Compare, Hold, dB, dBm
- Manual and auto-ranging
- 0.02% DCV basic accuracy

RS PRO IDM8342 Bench Digital Multimeter, 10A ac 750V ac 10A dc 1000V dc 50M Ω

RS Stock No.: 124-0228



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 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	VFD
Operating Temperature (Min to Max)	0 ^o c to 50 ^o c
Storage Temperature (Min to Max)	-20 ^o c to 70 ^o c
Diode Test	Yes
Continuity Test	Yes
Accuracy	±0.5% + 20 Digits
Maximum Reading Rate	Up to 40 readings/s for DCV
Memory Capacity	5,000,000 data files
IO Interface	USB
Application	Production test and quality inspection, Educational laboratory experiments, Repair and service, Circuit testing and debug

Measurement

Type	Absolute Maximum Measurement	Resolution	Best Accuracy
DC Current	10A dc	10nA dc	±0.05% + 4Digits
AC Current	10A ac	10nA ac	±0.5% + 20Digits
Resistance	50MΩ	10mΩ	±0.1% + 3 Digits
DC Voltage	1000V dc	10μV dc	±0.02% + 4Digits
AC Voltage	750V ac	10μV ac	±0.35%+15Digits
Capacitance	50μF	0.001nF	±2% + 4 Digits
Temperature	+300°C	0.1°C	±2 °C
Frequency	1MHz		

Mechanical Specifications

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

Approvals

Compliance/Certifications	EN61340
---------------------------	---------

