

## FEATURES

- Real 5 1/2 digit reading resolution
- Up to 150 rdgs/s measurement speed
- True-RMS AC voltage and AC current measuring
- 1 GB 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 software
- Dimensions 282 x 260 x 105 mm
- Weight 3.33 kg
- 4.3 TFT-LCD 280\*272
- Support double display, Chinese and English menu
- Built-in help system makes information acquisition easier
- File management (support for U-disc and local storage)

# RS PRO Digital Multimeters - RSDM3055 Bench Digital Multimeter

RS Stock No.: 1236465



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 RSDM3055 and RSDM3055A Digital Multimeter (DMM)

RS PRO RSDM3055 ([123-6465](#)) is a 5 digit multimeter with a dual-readout display. RS PRO RSDM3055A ([123-6466](#)) is of similar specification but, in addition, includes a USB to GPIB adapter. These devices can measure capacitance, voltage, electrical current, frequency, period, temperature and resistance with diode and continuity check.

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. The powerful testing engine measures speed up to 150 rdgs / s.

Other attributes include 1 GB nand total memory capacity, mass storage instrument settings, historical data and external U disk storage. The instruments can support VXI11, USBTMC remote control as well as interconnection with National Instruments' LabVIEW. An SCPI command programming manual is provided in support of remote control operation programming.

RS PRO RSDM3055 ([123-6465](#)) is compatible with mainstream multimeter command sets and uses the compatible language with SCPI for transmission and control. So conversion from an existing test environment is simple.

RS PRO range of handheld and bench digital multimeters are RS approved meaning that they are great value for money and high quality you can rely on

## General Specifications

<b>Model Number (p)</b>	RSDM3055
<b>Multimeter Type</b>	Bench
<b>Functions Measured</b>	AC Current, AC Voltage, Capacitance, Continuity, DC Current, DC Voltage, Diode, Frequency, Period, Resistance, Temperature
<b>True RMS</b>	Yes
<b>Display Type</b>	LCD
<b>Operating Temperature (Min to Max)</b>	0~50°C
<b>Storage Temperature (Min to Max)</b>	-20°C-70°C
<b>Diode Test</b>	Yes
<b>Continuity Test</b>	Yes
<b>IO Interface</b>	USB-GPIB(only for RSDM3055A) , 10/100Mbit LAN, USB2.0 Full Speed Device&Host

## Measurement

Type	Absolute Maximum Measurement	Resolution	Best Accuracy
DC Current	10A dc		0.06%
AC Current	10A ac		0.50%
Resistance	100MΩ		0.02%
DC Voltage	1000V dc		0.02%
AC Voltage	750V ac		0.20%
Capacitance	10mF		1%
Temperature	+400 (T) °C, +660 (RTD) °C, +1000 (E) °C, +1200 (J) °C, +1300 (N) °C, +1370 (K) °C, +1760 (R) °C, +1760 (S) °C, +1820 (B) °C		0.16 (RTD) °C, 0.5 (E) °C, 0.5 (J) °C, 0.5 (K) °C, 0.5 (N) °C, 0.5 (R) °C, 0.5 (T) °C, 0.6 (S) °C, 0.76 (B) °C
Frequency	1MHz		

## Electrical Specifications

<b>Safety Category Voltage</b>	600 V, 1000 V
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## Mechanical Specifications

<b>Dimensions</b>	282 x 260 x 105mm
<b>Width</b>	260mm
<b>Length</b>	282mm
<b>Height</b>	105mm
<b>Weight</b>	3.3kg

## Protection Category

<b>Safety Category Level</b>	CAT I, CAT II
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## Approvals

<b>Compliance/Certifications</b>	IEC61010-1:2001.
<b>Declarations</b>	RoHS Certificate of Compliance

## 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	