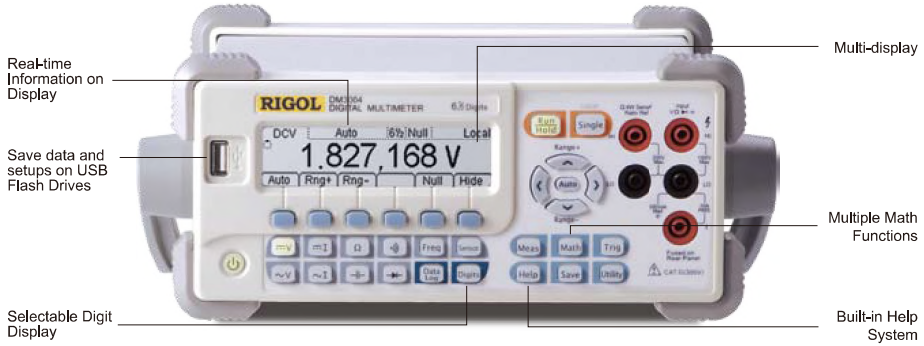
DM306X series 6½ Digital Multimeter

True 6½ digits resolution
50 K rdgs/s Sample Rate
32-Channel Multiplexer Module



Product Dimension: Width×Height×Depth＝232mm×107mm×291mm Weight: 2.5 kg

▶ Application Areas

- Manufacturing Test
- Signal Monitoring
- High Speed, High Resolution Data Acquisition
- Aging Test
- User Defined Test (Support most sensors)

▶ Features and Benefits

1. True 6½ digits resolution (2,400,000-count)
2. Up to 50 K rdgs/s Sample Rate, 512K rdgs of Non-volatile Memory and 2M rdgs of Volatile Memory
3. Patented Any Sensor test capability
4. Up to 32 Channels Multiplexer Module: Data acquisition, scanning and programmable automatic measurements
5. 256×64 pixels LCD display, to support multi-display and screen menu
6. Connectivity: RS-232, USB Host, USB Device, GPIB (optional), LAN (optional)

Model	DM3061	DM3062	DM3064
Reading Resolution	6½ digits		
Connectivity	RS-232, USB Host, USB Device	Plus LAN and GPIB	Plus LAN, GPIB and Multiplexer Module

▶ Specifications

Measurement Function	Range	Frequency Range/ Test Current	Accuracy: 1 Year±(% of reading + % of range)
DC Voltage	200 mV~1000 V		0.0078+0.0007
AC Voltage (True RMS)	200 mV~750 V	3 Hz~300 kHz	0.11+0.07
DC Current	2 mA~10 A		0.073+0.030
AC Current (True RMS)	20 mA~10 A	3 Hz~10 kHz	0.2+0.25

Measurement Function	Range	Frequency Range / Test Current	Accuracy: 1 Year±(% of reading + % of range)
Resistance(2-wire and 4-wire)	200 Ω~100 MΩ		0.015+0.001
Capacitance	2 nF~200 uF		1+0.5
Diode	2.4 V	1 mA	0.010+0.050
Continuity	2000 Ω	1 mA	0.010+0.050
Frequency,Period Accuracy	200 mV~750 V	3 Hz~300 kHz	0.007
±(% of reading)	20 mA~10 A	3 Hz~10 kHz	0.007

Note: All the indicators are the typical value under standard test situation

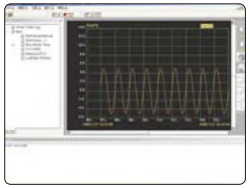
▶ Other Parameters

24 Measurement Functions	DC voltage and current, AC voltage and current, 2-wire and 4-wire resistance, Capacitance, Continuity Test, Diode Test Frequency, Period, Ratio Test and Any Sensor Test
	Math functions: Max, Min, Avg, histogram, High Limit, Low Limit, dBm, dB, Null
	Data acquisition: data logging, scanning
Other Functions	Built-in memories: Store up to 10 Setups, 10 Data records and 10 Sensor descriptions
	True RMS AC voltage and current
	Input impedance >10 GΩ
	DC voltage range up to 48 V (± 24 V)
Application Software	UltraLogger: For scan measurement and data acquisition control
	UltraSensor: For any sensors measurement
Maximum Input	DC voltage 1,000 VDC, AC voltage 750 Vrms AC, DC and AC max external current 10 A, internal 12 A double fuses
Safety	Measurement of CAT II 300V, CAT I 1000V, Pollution level 1
Shock and Vibration	MIL-T-28800, type III, class 5 (only sine)
Power Supply	AC:100V-240V±10%, 45Hz-65Hz; 20 VA Max

▶ Multiplexer Module

The module provides up to 32 channels of acquisition. The easy to use software allows the user to scan any or all of the 32 channels and place the data into the memory.

Multiplexer Module



UltraLogger Software Interface

DM305X series 5¾Digital Multimeter

Product Dimension: Width×Height×Depth＝232mm×107mm×291mm Weight: 2.5 kg

▶ Application Areas

- Manufacturing Test
- Signal Monitoring
- High Speed, High Resolution Data Acquisition
- Aging Test
- User Defined Test (Support most sensors)

▶ Features and Benefits

1. True 5¾ digits resolution (480,000-count)
2. Up to 50 K rdgs/s Sample Rate, 512K rdgs of Non-volatile Memory and 2M rdgs of Volatile Memory
3. Patented Any Sensor test capability
4. Up to 32 Channels Multiplexer Module: Data acquisition, scanning and programmable automatic measurements
5. 256×64 pixels LCD display, to support multi-display and screen menu
6. Connectivity: RS-232, USB Host, USB Device, GPIB (optional), LAN (optional)

Model	DM3051	DM3052	DM3054
Reading Resolution	5¾ digits		
Connectivity	RS-232, USB Host, USB Device	Plus LAN and GPIB	Plus LAN, GPIB and Multiplexer Module

▶ Specifications

Measurement Function	Range	Frequency Range/Test Current	Accuracy: 1 Year ±(% of reading + % range)
DC Voltage	400 mV~1000 V	10Hz~100 kHz	0.025+0.006
AC Voltage (True RMS)	200 mV~750 V		0.20 + 0.1
DC Current	2 mA~10 A	10Hz~10 kHz	0.050+0.008
AC Current (True RMS)	20 mA~10 A		0.5+0.1
Resistance (2-wire and 4-wire)	400 Ω~100 MΩ		0.015+0.006
Capacitor	4 nF~200 uF		1+0.5
Diode	2.4 V	1mA	0.05 + 0.010
Continuity	2000 Ω	1 mA	0.05 + 0.010
Frequency,Period Accuracy ±(% of reading)	200 mV ~ 750 V	3 Hz~300 kHz	0.02
	20 mA ~10 A	3 Hz~10 kHz	0.02

Note: All the indicators are the typical value under standard test situation

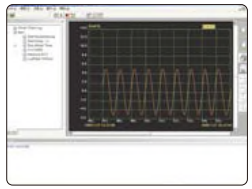
▶ Other Parameters

24 Measurement Functions	DC voltage and current, AC voltage and current, 2-wire and 4-wire Resistance, Capacitance, Continuity Test, Diode Test, Frequency, Period, Ratio Test and Any Sensor Test
	Math Functions: Max, Min, Avg, Histogram, High Limit, Low Limit, dBm, dB, Null
	Data acquisition: data logging, scanning
Other Functions	Built-in memories: Store up to 10 Setups, 10 Data records and 10 Sensor descriptions
	True RMS AC voltage and current
	Input impedance >10 GΩ
	DC voltage range up to 48 V (± 24 V)
Application Software	UltraLogger: For scan measurement and data acquisition control
	UltraSensor: For any sensors measurement
Maximum Input	DC voltage 1,000 VDC, AC voltage 750 Vrms AC, DC and AC max external current 10 A, internal 12 A double fuses
Safety	Measurement of CAT II 300V, CAT I 1000V, Pollution level 1
Shock and Vibration	MIL-T-28800, type III, class 5 (only sine)
Power Supply	AC: 100V-240V±10%, 45Hz-65Hz, 20VA Max

▶ Multiplexer Module

The module provides up to 32 channels of acquisition. The easy to use software allows the user to scan any or all of the 32 channels and place the data into the memory.

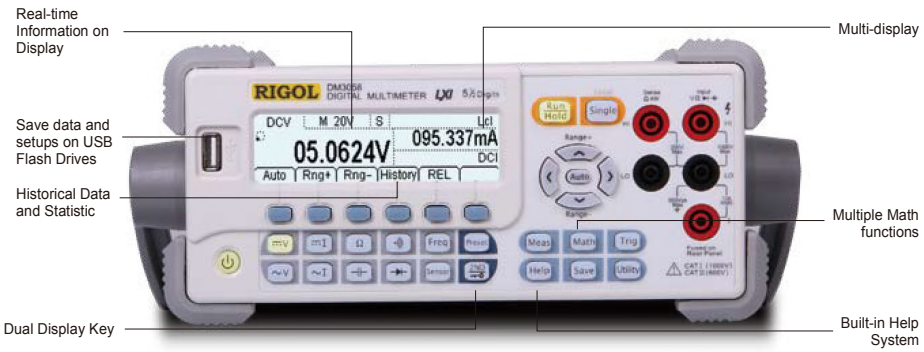
Multiplexer Module



UltraLogger Software Interface

DM3058 Digital Multimeter

True 5½ digits resolution
120 rdgs/s Sample Rate
0.015% DC Voltage Accuracy



Product Dimension: Width×Height×Depth＝232mm×107mm×291mm Weight: 2.5 kg

Application Areas

- Manufacturing Test
- Scientific research and Education
- Quality Test
- Maintenance
- Laboratory

Features and Benefits

1. True 5½ digits resolution (240,000-count)
2. 120 rdgs/s Maximum Sample Rate
3. Up to 0.015% accuracy of DC Voltage per year
4. Command compatibility: Replace mainstream DMM randomly via the compatibility of their command
5. Patented Any Sensor test capability
6. 256×64 pixels LCD display, to support multi-display and screen menu
7. Connectivity: GPIB, LAN (LXI Class C), RS-232, USB Host and USB Device

Specifications

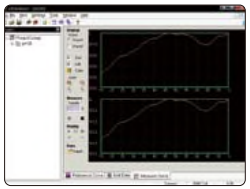
Measurement Function	Range	Frequency Range/Test Current	Accuracy:1 Year ± (%of reading +%of range)
DC Voltage	200mV ~ 1000V		0.015+ 0.003
DC Current	200uA~10A		0.020+0.005
AC Voltage (RMS)	200mV~750V	20Hz~100kHz	0.20 + 0.05
AC Current (RMS)	20mA~10A	20Hz~10kHz	0.30+0.06
Resistance			
(2-wire and 4-wire)	200Ω~100MΩ		0.020+0.003
Capacitance	2nF~10000uF		1.0+0.5
Diode	2.4V	1mA	0.05+0.01
Frequency and Period	200mV~750V	10Hz~1MHz	0.01+0.003
	20mA~10A	10Hz~100kHz	0.01+0.003
Continuity	2KΩ	1mA	0.05+0.01

Note: All the indicators are the typical value under standard test situation

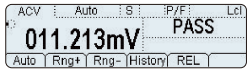
Other Parameters

Measurement Function	DC Voltage, DC Current, AC Voltage (RMS), AC Current (RMS), Resistance (2-wire and 4-wire), Capacitance, Diodes, Frequency and Period, Continuity, Short Current, Any Sensor
Math	"Pass/Fail" Limit Test, Standard Deviation, Histogram, Relatively, Null, Max/Min/Avg, dBm, dB
Other Functions	Built-in 10 groups of configuration storage,10 groups of configuration storage of any sensor, 2048 historical reading data record and check, 10 groups of historical datum storage, Exterior trigger input and VMC output, Reading hold, Single trigger
Display Characteristic	Multi-display, Menu, Multi-language help and Waveform display
Safety	CAT II 600V, CAT I 1000V, Pollution level 2
Shock and Vibration	MIL-T-28800, type III, class 5 (sine)
Power Supply	110/220V ±20%, 45-65Hz, 20VA Max

Advanced Performance



Ultrasensor Software Interface



Pass / Fail

Multi-Display