

True RMS Datalogging Multimeter | SMM180

Advanced

SMM180 is a next generation high performance digital multimeter with trend capture, true RMS, low pass filter, nS conductance, dual temperature measurement and more. With the help of the data logging feature, users can store up to 20000 sets of measurement data and display them on a trend graph for long term monitoring. IP65 dust & water proof rating for use in any harsh working environment.

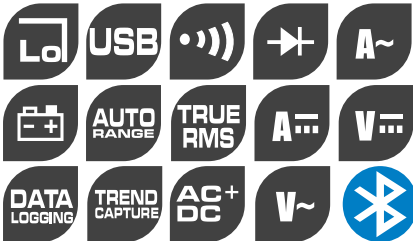


Complies to:
UL61010-1
EN61010-1
EN61010-2-030
EN61326-1



Features :

- 60000 display count
- Trend capture
- Data logging: 20000
- Data comparison
- 3.5-inch 64k color TFT LCD
- Low pass filter
- Li-ion battery: 2200mAh
- Real time and date
- Bluetooth/APP
- IP 65 water & dust proof



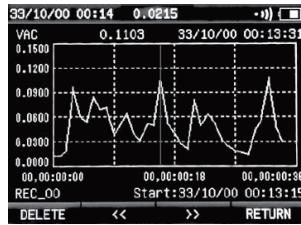
IP65

Specifications :

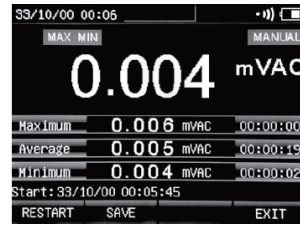
| | | |
|--------------------------------|--|--------------|
| Auto/Manual Range | √ | |
| True RMS | √ | |
| Display Count | 60000 | |
| Bandwidth (Hz) | 100kHz | |
| Measurements | | Accuracy |
| DC Voltage (V) | 60mV/600mV/6V/60V/600V/1000V | ± (0.025%+5) |
| AC Voltage (V) | 60mV/600mV/6V/60V/600V/1000V | ± (0.3%+30) |
| DC Current (A) | 600µA/6000µA/60mA/600mA/10A | ± (0.08%+10) |
| AC Current (A) | 600µA/6000µA/60mA/600mA/10A | ± (0.6%+20) |
| Resistance | 600Ω/6kΩ/60kΩ/600kΩ/6MΩ/60MΩ | ± (0.05%+2) |
| Admittance (nS) | 60ns | ± (2%+10) |
| Capacitance (F) | 6nF/60nF/600nF/6µF/60µF/600µF/6mF/60mF | ± (2%+5) |
| Frequency (Hz) | 10Hz-60MHz | ± (0.01%+5) |
| Duty Cycle | 10% ~ 90% | ± (1.2%+30) |
| Temperature (°C) | -40 °C~1000°C | ± (1.5%+50) |
| Temperature (°F) | -40°F~1832°F | |
| Trend Capture | √ | |
| Low Pass Filter | 1kHz(-3db) | |
| dBV/dBm | √ | |
| Continuity Buzzer | √ | |
| Diode Test | Around 3V | |
| Dual Temp. Measurement | T1, T2, T1-T2, T2-T1 | |
| Data/Transmission | | |
| Data Logging | 20000 Data Sets | |
| USB Data Transfer | √ | |
| Bluetooth® | √ | |
| Display | | |
| MAX/MIN/AVG | √ | |
| Relative Mode | √ | |
| AC+DC | √ | |
| Peak Hold | √ | |
| Date Time Display | √ | |
| Data Comparison | √ | |
| Data Hold | √ | |
| Display Type | 3.5 Inches 64K Color TFT LCD (320 x 240) | |
| LCD Backlight | √ | |
| Simulate Strip | √ | |
| Other Features | | |
| Environmental Rating | IP65 | |
| Mis-Plug Alarm | √ | |
| Battery Indication | √ | |
| Auto Power Off | (Settable 1 to 60 mins) | |
| Charge Function | √ | |
| Input Alarm | √ | |
| Category Safety Ratings | CAT III 1000V CAT IV 600V | |
| General Characteristics | | |
| Size | 225mm X 103mm X 59mm | |
| Weight | 638.6g | |
| Power | Li-ion Battery: 7.4V 2200mAh | |
| Display | 3.5-Inch 64K Color TFT LCD (320 x 240) | |
| Standard Accessories | Batteries, Measuring Leads, USB Interface Cable, Power Supply Adaptor, PC Software CD, Carrying Bag, Temperature Measurement Probe | |

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Multi Image Display



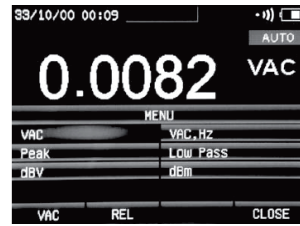
(1) Trend Capture Function



(2) Max/Mix/AVG Measure Function



(3) Data Logging Function



(4) Menu-Multi-Function selectable

Advanced

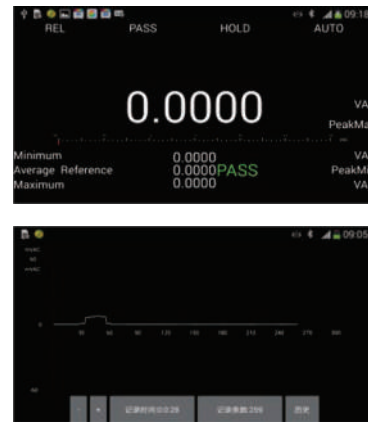
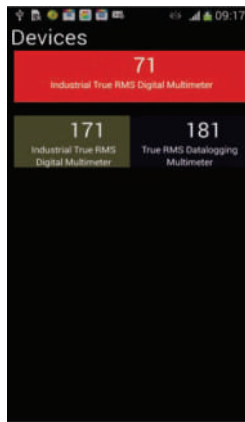
The SMM180 is designed to solve problems in Industrial plants & process control, power distribution, & testing supply to data & telecom equipment.

Trend Capture View: The SMM180 multi meter logs data "every second" Maximum, Minimum & Average value of electrical parameter being measured.

In Addition, the instrument features "Peak detection" with a response time of 1ms for transient values to be captured. Trends captured can be viewed graphically with the option to move data left or right and option to scale the graph vertically or horizontally.

LPF Measurement: The SMM180 multimeter also features LPF i.e. low pass filter which allows the operator to measure composite signals of sinusoidal wave generated by inverter and variable frequency motors, while holding voltages higher than 1KHz.

Bluetooth + Smart Phone (Optional Adapter Required)



Bluetooth allows remote capture of data being acquired.

Real time Transfer is possible from DMM to smart phone at sampling rate. Requires separate purchase of Bluetooth adaptor.

Data logging: Log data transfer from DMM to Smart phone at sampling rate, settable by Smart phone.

List view: List of measurement results.

Landscape: Current measurement data at enlarged view.

Trend capture view: Graphic representation of measurement result.