

# IP67 INDUSTRIAL MULTIMETERS



## INDUSTRIAL DMM



The MT1887 is a CAT IV 600V True RMS professional multimeter having improved measurement functions, troubleshooting feature, resolution and accuracy to solve problems on power distribution, motor drives, electromechanical equipment and plant automation with the 4-20mA% loop measurements. The meter has a large 40 000 count backlit LCD with the added advantage of a 41 segment analogue bargraph. NCV function, automatic Non-Contact voltage detection, the LCD backlight will be in red when AC voltage above 110V is sensed. Specially designed for the Solar Industry the DC voltage range measures up to 1500V DC, other measuring ranges include ACV to 1000V, Micro Amps and Amps, Frequency, Resistance, Duty Cycle, capacitance and temperature measurements. The Bluetooth function allows the user to transmit data to the Android or iOS mobile App for viewing, organising and sharing recordings. The meter has a double moulded rubber case with IP67 waterproof and dustproof rating, rugged design for heavy duty use.

### Features

- 40 000 count with 41 Segment Bargraph
- Measures DCV to 1500V & ACV up to 1000V
- Temperature measurement from -50°C to 1000°C
- AC & DC Micro Amps up to 10A
- 4-20mA process loop measurements with % reading
- Capacitance to 40mF
- Frequency to 100MHz
- Duty Cycle
- Relative mode
- Automatic NCV where LCD backlight turns red
- Min, Max and Data Hold
- Auto Power Off
- IP67 Dust & Waterproof

Function	Range	Accuracy
DC Voltage	400.0mV – 1500V	±(0.1%+6)
AC Voltage	4.0000V – 1000V	±(1.0%+8)
DC Current	400.0µA – 10A	±(1.0%+3)
AC Current	600.0µA – 10A	±(1.5%+8)
Resistance	400.0Ω – 40MΩ	±(0.5%+8)
Frequency	40.000Hz – 99.99MHz	±(0.1%+1)
Capacitance	40.00nF – 40mF	±(2.5%+10)
Temperature	-50°C – 1000°C	±(1.0%+2.5°C)
4-20mA	25% to 125%	±50 dgt
Duty Cycle	0.01% to 95.0%	±(1.2%+2)
Size	187 x 81 x 50mm	
Weight	342g	

■ Optional MT815 2m Test Leads



MT1887

## INDUSTRIAL DMM



The MT1885 is a CAT IV 600V True RMS multimeter specially designed for the Solar industry due to the measurement of up to 1500V DC. The meter has a large 6000 count backlit LCD with the added advantage of a 61 segment analogue bargraph. NCV function, automatic Non-Contact voltage detection, the LCD backlight will be in red when AC voltage above 110V is sensed. Other measuring ranges include ACV to 1000V, Micro Amps and Amps, Frequency, Resistance, Duty Cycle, capacitance and temperature measurements. The Bluetooth function allows the user to transmit data to the Android or iOS mobile App for viewing, organising and sharing recordings. The meter has a double moulded rubber case with IP67 waterproof and dustproof rating, rugged design for heavy duty use.

### Features

- 6000 count with 61 Segment Bargraph
- Measures DCV up to 1500V & ACV up to 1000V
- Temperature measurement from -20°C to 1000°C
- AC & DC Micro Amps up to 10A
- Capacitance to 100mF
- Frequency to 10MHz
- Duty Cycle
- Relative mode
- Automatic NCV where LCD backlight turns red
- Min, Max and Data Hold
- Auto Power Off
- IP67 Dust & Waterproof

Function	Range	Accuracy
DC Voltage	600.0mV – 1500V	±(0.5%+5)
AC Voltage	6.000V – 1000V	±(0.8%+4)
DC Current	600.0µA – 10A	±(1.0%+3)
AC Current	600.0µA – 10A	±(1.5%+2)
Resistance	600.0Ω – 60MΩ	±(1.5%+2)
Frequency	9.999Hz – 9.999MHz	±(1.2%+4)
Capacitance	99.99nF – 100mF	±(4.0%+5)
Temperature	-20°C – 1000°C	±(3.0%+5°C)
Duty Cycle	0.1% to 99.9%	±(1.2%+2)
Size	187 x 81 x 50mm	
Weight	342g	

■ Optional MT815 2m Test Leads



MT1885

## IP67 WATERPROOF & DUST PROOF RATINGS

An Ingress Protection rating commonly known as IP usually has a two-digit rating. In the IP67 rating, the first digit 6 indicates full protection against dust and other particles, while the second digit 7 relates to full immersion for up to 30 minutes in depths up to 1 meter. The Major Tech multimeters were one of the first to have been designed to meet the IP67 rating.

Mining and some industries have harsh and tough conditions and normal multimeters do not adequately meet these demands. Typically, when an electrician has to go down a mine, the conditions underground are severe and there is normally a very high humidity content. A standard meter would be required to "Soak" a term describing the period of time for the meter to acclimatize under these conditions, which could be a few hours. Using the Major Tech IP67 multimeters these electricians or engineers can use the meters underground immediately to troubleshoot electrical problems with accuracy and safety. Even though the Major Tech MT1800 series have the IP67 rating their pricing is similar to that of standard multimeters.

