

Product Datasheet - Technical Specifications



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Insulation meter 50V to 1000V Complete multimeter

Characteristics

- Insulation measurement at 50V, 100V, 250V, 500V, 1000V
- Insulation resistance : up to 22Gohms
- Voltage measurement up to 1000V TRMS AC and 1000V DC
- Current measurement AC and DC (400mA)
- Resistance measurement, continuity and diode test
- Frequency measurement
- Capacitance measurement
- Temperature measurement
- Compact housing with protective holster
- Backlit LCD display
- Functions: **Min, Max, AVG, Relatif and HOLD mode**
- Memory: 5 x 100 memories
- Delivered with active probe
- Safety : 600V CAT IV and 1000V CAT III

Compliance with the standard EN61557-1, EN61557-2, EN61557-4 and EN61557-10



Specifications

MW 9091

Insulation resistance		Protection by a fuse	
Test Voltage	50V, 100V, 250V, 500V, 1000V	Frequency measurement	
Open circuit voltage	-0%, +20%	Ranges	from 100Hz to 100kHz voltage and current
Short circuit current	1mA (nominal)	Basic accuracy	$\pm(1,2\% + 2d)$
Ranges / Accuracy	2M Ω to 2G Ω / $\pm(1,5\% + 5d)$, 22G Ω / $\pm(10\% + 3d)$	Sensitivity	from 15mVrms to 30Vrms. And from 15mArms to 30mArms
Discharge of circuits	Automatic discharge (typical 1s for C<1 μ F)	Capacitance measurement	
Protection	Test inhibited in presence of voltage > 30V AC or DC	Ranges	from 100nF to 40mF
Resistance measurement, continuity and diode test		Basic accuracy	$\pm(0,1\% + 5d)$
Ranges / Accuracy	1000 Ω to 40M Ω / $\pm(0,5\% + 2d)$	Protection	1000V AC or DC
Continuity measurement	range 400 Ω , $\pm(0,5\% + 2d)$	Temperature measurement	
Diode test	range 2V, $\pm(0,5\% + 2d)$	Ranges / Accuracy	from -200°C to +1000°C / $\pm(1\% + 1^\circ C)$
Protection	1000V AC or DC	Protection	1000V AC or DC
DC Voltage measurement		Functions	MIN / MAX / AVG, relative and HOLD mode
Ranges	from 100mV to 1000V DC	Memory	
Basic accuracy	$\pm(0,08\% + 2d)$	General specifications	
Input impedance	10M Ω // 100pF max.	Power supply	4 batteries 1.5V type AA/ recommended Alkaline
Protection	1000V AC or DC	Display	LCD 10000 points, with automatic backlight
AC Voltage measurement		Measurement rate	2 mes/s
Ranges/ Accuracy	from 100mV to 1000V DC	Automatic shutdown	after approximately 20 minutes
Basic accuracy (no filter)	$\pm(0,9\% + 3d)$	Battery life	typical: 600 insulation measurements at 1M Ω and 1000V
Low pass filter	yes, (Fc=1kHz)	Security	600V CAT IV and 1000V CAT III
Input Impedance	10M Ω // 100pF max.	Measurements	According EN61557-1, -2, -4 and -10
Bandwidth	50Hz to 5kHz	Operating temperature	0°C to 50°C
Conversion	TRMS type AC coupling, peak factor max from 3 to 330V and 2 to 500V	Storage temperature	-20°C to +60°C
Protection	1000V AC or DC	Dimensions	95 x 207 x 52 mm, with sheath
Current measurement AC and DC		Weight	630 g
Ranges	100mA and 400mA / $\pm(0,2\% + 2d)$ in DC and $\pm(1,5\% + 2d)$ in AC		

Delivered with : batteries, rubber holster, manual, silicone cords, active test probe, carrying case.

FTMW9091 A00 - The specifications can be modified without notice.

