

# Thermal viewer

## MD 9880 TRMS thermal multimeter

Thermal viewer



MD 9880 is the ultimate troubleshooting tool. Combining essential multimeter functions with thermal viewer, it allows a service provider to quickly locate a wide array of possible faults. Hot spots can be then simply tested with electrical measurement. Thermal view also expands the usefulness of the instrument to other applications in the facility or vehicle, locating leaks, frictions stress and thermal losses.

### MEASUREMENT FUNCTIONS:

- Temperature with cursor on camera;
- TRMS DC and AC voltage;
- TRMS DC and AC current;
- Resistance;
- Frequency;
- Capacitance;
- Duty cycle;
- Diode test.

### KEY FUNCTIONS:

- Thermal view;
- Automatic and manual range;
- Hold and auto-hold modes;
- MIN/MAX values capture;
- Relative mode;
- Peak capture mode;
- Temperature in °C, °F or K.

### APPLICATIONS:

- Troubleshooting electrical installations (switchboards, contacts, busbars, etc.);
- Troubleshooting electrical equipment;
- Troubleshooting electrical vehicles;
- Mid-level electrical testing;
- Field service;
- Building and facility maintenance;
- Energy loss analysis;
- Troubleshooting other installations (pipes, carpentry, windows, etc);
- Hobby work.

## TECHNICAL SPECIFICATION - Thermal viewer

FUNCTION	
IR sensor resolution	80x80 pxl
Temperature range	-20 – 260°C
Thermal sensitivity/NETD	0,1°C @ 30°C / 100 mK
Thermal accuracy	Higher value $\pm 3^\circ\text{C}$ or $\pm 3\%$
Field of vision	21° x 21°
Spectral range	8 – 14 $\mu\text{m}$
Frame rate	50 Hz
Focal length	7.5 mm
Spatial resolution	4.53 mrad
Emissivity	0.01 – 0.99
Min focus distance	0.5m
Focus	Fixed
Colour palettes	4

## TECHNICAL SPECIFICATION - Multimeter

FUNCTION	Ranges	Accuracy
DC voltage	400.0 mV ... 600.0 V	From $\pm(0.5\% + 5d)$ to $\pm(0.8\% + 8d)$
AC TRMS voltage	4.000 V ... 600.0 V	From $\pm(1.0\% + 5d)$ to $\pm(2.5\% + 5d)$
AC + DC TRMS voltage	4.000 V ... 600.0 V	$\pm(2.5\% + 5d)$
DC current	400.0 $\mu\text{A}$ ... 10.00 A	From $\pm(1.5\% + 5d)$ to $\pm(2.0\% + 8d)$
AC TRMS current	400.0 $\mu\text{A}$ ... 10.00 A	From $\pm(2.0\% + 5d)$ to $\pm(2.5\% + 8d)$
Resistance/continuity	400.0 $\Omega$ ... 40.00 M $\Omega$	From $\pm(1.0\% + 5d)$ to $\pm(2.5\% + 10d)$
Frequency	40.00 Hz ... 10.00 MHz	From $\pm(0.2\% + 5d)$ to $\pm(0.5\% + 0d)$
Capacitance	40.00 nF ... 4000 $\mu\text{F}$	From $\pm(3.0\% + 8d)$ to $\pm(3.5\% + 20d)$
Duty cycle	10.0 % ... 90.0 %	$\pm(1.2\% + 2d)$
Diode test	Test current <1.5 mA. max open circuit voltage 3.3 V	

## ORDERING INFORMATION



### Standard set (MD 9880)

- MD 9880 TRMS thermal multimeter
- USB cable
- Carrying case
- Measuring probes
- Instruction manual

### METREL D.D.

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Note! Photographs in this catalogue may slightly differ from the instruments at the time of delivery.  
 Subject to technical change without notice.