



TM Electronics (UK) Limited

MULBERRY HOUSE
MULBERRY LANE
GORING-BY-SEA
WORTHING
WEST SUSSEX
BN12 4RD

TELEPHONE : +44 (0) 1903 700651

FAX : +44 (0) 1903 244307

EMAIL : sales@tmthermometers.com

www.tmthermometers.com



MM2008 Handheld Thermometer



INTRODUCTION

Your high accuracy microprocessor driven thermometer is suitable for use with T & K type thermocouple sensors.

The thermocouple calibrations are in accordance with national and international standards (NBS and IEC) tables.

Features

- PRESET TO °C
- OVERRANGE/OPENCIRCUIT PROBE INDICATION
- T & K THERMOCOUPLE TYPE
- LOW BATTERY INDICATION
- RETENTION OF THERMOCOUPLE

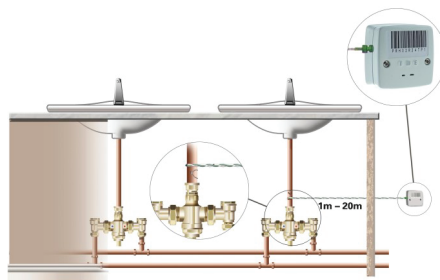
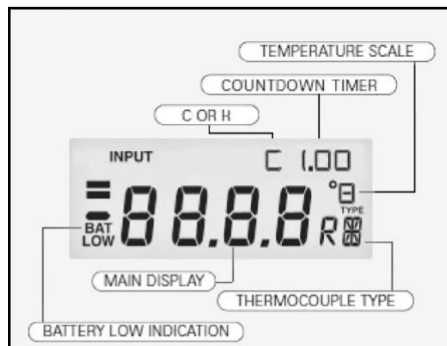
TYPE AND SCALE



Fine Wire Probes – Available in various lengths up to 20 meters and with self-adhesive patches to adhere to pipework
Temp Range:-100 to 250°C



TCWALLPORT – Connection box for test points with difficult or impaired access. Measures – 52 x 52cm
Available in White, Red (hot) or Blue (cold)



SPECIFICATIONS

Environmental

Ambient operating range	30°C to 50°C (-21 to 122°F)
Storage temperature range	-40°C to 60°C (-40 to 140°F)
Humidity	0 to 70% R.H.

ELECTRICAL

Measurement Ranges	K = -200°C to 1372°C T = -200°C to 400°C
Accuracy@23°C	±0.1% of reading ±0.2°C
Characterising error	less than 0.05°C
Temperature coefficient	0.01% of reading/°C
Cold junction compensation	0.0075°C/°C
Resolution	0.1°autoranging to 1° 1000°

Note

Strong RF fields may adversely affect measurement accuracy.

General

Weight	155gms (5.47oz)
Dimensions	130 x 70 x 33 mm
Battery	PP3
Battery Life	200 Hours

Changing Thermocouple Type

To change thermocouple type, follow the sequence below:

- 1. Switch the unit OFF.
- 2. Press and hold the 'SCL' button.
- 3. Switch the unit ON.
- 4. Release buttons.

Note—this instrument can only be set to T or K .

Replacing The Battery

The instrument will indicate 'BAT LOW' when the battery needs replacing. To replace the battery, firstly remove the outer case. The battery compartment is on the rear of the instrument. Using a small screwdriver ease back the tab of the battery compartment. The compartment will then lift away.

Open Circuit Thermocouple Detection

An error in the probe is shown on the display by a series of bars '- - - -' coupled with the word 'INPUT' at the top of the display.
This indicates either that the probe has an error or the temperature is out of range.

MM2008 Compatible Products

Just a selection of the products that we recommend



KM03 - General Purpose Probe for use with running water.
Temp Range: -200 to 1100 °C



KS20-S - High Speed Reinforced Dual Surface/Immersion Probe - a combined probe for measuring the temperature of running water, radiators and pipes. Temp Range: -50 to 250°C



KS07 - High Temperature Surface Probe for surfaces such as radiators and pipes. Temp Range: -50 to 600°C

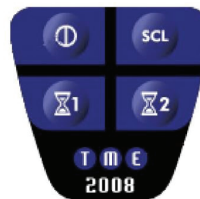
OPERATING INSTRUCTIONS

To Measure Temperature

1. Fit the battery to the instrument (refer to battery replacement details) .
2. Switch thermometer ON.
3. Plug thermocouple into input socket.
4. Check thermocouple type is correct (refer to changing thermocouple type details).
5. Take measurement by contacting or immersing* the probe and reading from the display.

*Applicable only for probes specifically designed for immersion.

USING THE TIMER FUNCTIONS



Press for 1 minute countdown for Hot water temperatures.



Press for 2 minute countdown for Cold water temperatures.

Press the same button again to switch off .