

# TM Series Portable Temperature calibrators

The TM Series of Portable Temperature calibrators are an ideal tool for calibrating any type of temperature sensors and switches with-in industrial and marine applications



## Product features

The TM series is available in 3 models to cover a temperature range from  $-24$  to  $650^{\circ}\text{C}$ . The new block technology allow for fast heating/cooling whilst maintaining high accuracy and stability. The rugged construction and the light weight make it the ideal tool for on-site or on-board calibration.

- Temperature range  $-24$  to  $650\text{C}$
- 3 separate models
- High stability and accuracy
- Interchangeable multi-hole inserts
- Automatic switch test function
- Automatic Ramp
- 100-240 switching main power
- DNV type approval for use on-board of vessel
- Extended calibration interval

## Up to two years calibration interval

Best accuracy with the recommended one year calibration interval. Save money and logistic issues by extending the calibration interval to 2 years. Particularly suitable when the TM Calibrator are on board-vessel

## Interchangeable Inserts

Multi-holes Interchangeable inserts are used to match the diameter of the sensors under test to fit your application



## Automatic switch test

Set your automatic ramp (slope) with up to  $0.1\text{C}$  per minute rate. The TM series will store for you the contact open and closed. No need for any additional mustimeter. Maximise your time and perform other tasks while the TM will do the job for you.



## Fully programmable ramp

Programme your ramp, and monitor the temperature sensors from the control panel while the TM is sourcing the temperature in the engine room.

## Adjust and calibrate every where

The TM series is vert easy and straight forward to adjust and recalibrate. There is no need of PC or special software. All you need is a reliable reference sensor. Simply place the probe in the calibrator and follow the instruction



## Technical Specifications

	T140M-MK2	T375M-MK2	T650M-MK2
Type Approval		DNV certificate A-13537	DNV certificate A-13537
Temperature			
Temperature Range (@ 20°C)	-24 to 140 °C	30 to 375 °C	35 to 650 °C
1 year Accuracy ( internal sensor)	±0.25°C @ 100 °C	±0.35°C	±0.5°C
2 year Accuracy ( internal sensor)	±0.6C @ 100 °C	±0.8°C	±0.9°C
<i>Specification are quoted at 20C, using internal sensor, load Ø3mm (T140, T375) Load Ø4.5mm( T650) reference sensor in the middle of the hole</i>			
Stability	±0.05 °C	±0.10 °C	±0.2 °C
Block			
Block Diameter	19 mm	26 mm	26 mm
Block Depth	104 mm	150 mm	150 mm
Standard insert supplied	1x4.8mm, 2 x6.4 mm, 1 x 3.3 mm	1 x 11.1mm, 1 x 3.2mm, 1 x4.8mm, 1x6.4mm	1 x 10.5mm, 1x3.2mm, 1x7.0mm, 1 x3.2 mm
Display			
Range	-45 to 140 °C	0 to 375 °C	0 to 650 °C
Type	Led dual line	Led dual line	Led dual line
Resolution	0.1°C/0.1°F	0.1°C/0.1°F	0.1°C/0.1°F
Temperature unit	°C/°F	°C/°F	°C/°F
Heating time ( including stabilization time)	20– to 120C in 20 min	30C to 375C in 20 min	50C to 650C in 30 min
Cooling Time ( including stabilization Time)	20C to -20C in 17 min	375C to 100 C in 30 min	650C to 100C in 30 min
Other			
On-board Full programmable Ramp	Yes	Yes	Yes
Switch test function( automatic close/open)	Yes	Yes	Yes RS232
digital interface	Yes	Yes	Yes
Traceable Calibration Certificate	Included	Included	Included
Power Supply ( automatic switching)	100/230 VAC, 50/60 Hz	100/230 VAC, 50/60 Hz	115/230 50/60 Hz
Power	80W	600W	600W
Dimension	130 x 260x 280 mm	130x260x280 mm	130x260,x 280 mm
Standard delivery	Temperature calibrator, standard insert, tool for insert removal, switch test leads, instruction manual, calibration certificate		

#### Ordering Information

T140M-MK2-EU	Temperature Calibrator, -24 to 140C, 100/240V, EU Plug
T140M-MK2-UK	Temperature Calibrator, -24 to 140C, 100/240V, UK Plug
T140M-MK2-US	Temperature Calibrator, -24 to 140C, 100/240V, US Plug
T375M-MK2-EU	Temperature Calibrator, 30 to 375C, 100/240V, EU Plug
T375M-MK2-UK	Temperature Calibrator, 30 to 375C, 100/240V, UK Plug
T375M-MK2-US	Temperature Calibrator, 30 to 375C, 100/240V, US Plug
T650M-MK2-EU	Temperature Calibrator, 35 to 650C, 100/240V, EU Plug
T650M-MK2-UK	Temperature Calibrator, 35 to 650C, 100/240V, UK Plug
T650M-MK2-US	Temperature Calibrator, 35 to 650C, 100/240V, US Plug

#### Included:

- Calibrator
- Standard Insert
- Calibration certificate
- Power Cord
- Insert removal tool
- Switch test lead
- Instruction Manual

#### Transport cases ( optional)

TMSE-CASE-03 Vinyl Case with pockets and shoulder strap  
Shipping size: 450x250x415, 0.7 Kg



TMSE-CASE-01 IP65 ABS Case with custom made and document lead  
Shipping size 470x640x330, 3 KG



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