

M40-T Temperature panel meter

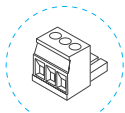
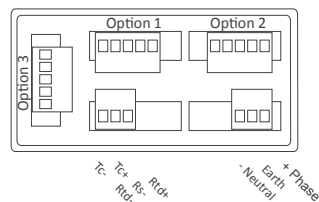
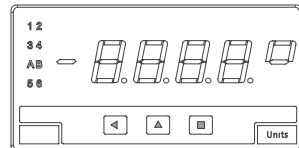
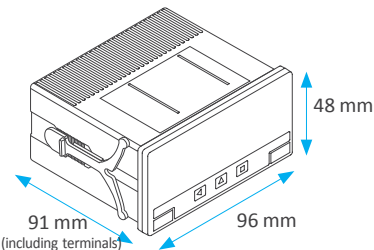
Temperature panel meter for Pt100 / RTD and thermocouple probes J, K, T, E, S, R, N, C, L and X. Reading with 4 digits at 14 mm digit height. Standard 96 x 48 mm (1/8 DIN) size, for panel mount. Reading in °C or °F. Configurable cold junction compensation. Configurable manual offset. Universal high and low AC and DC power options. Optional output modules with relay, transistor, SSR control, analog outputs and MODBUS RTU communication.



Technical specifications

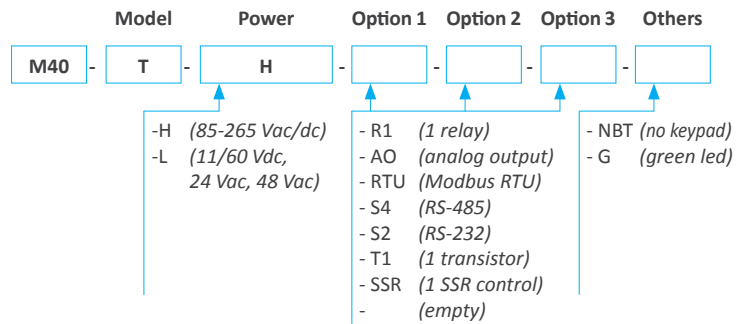
Digits	4
Reading	9999 / -9999
Decimal point	configurable
Led color	red or green
Digit height	14 mm
Signals	pt100 / RTD with 2 and 3 wires thermocouples J, K, T, E, S, R, N, C, L and X
Accuracy	<0.2° for pt100 / RTD <2° or <4° for thermocouples
Offset drift	0.05 °/° for pt100 / RTD 0.05 °/° or 0.2°/° for thermocouples
Span drift*	0.10 °/° for pt100 / RTD 0.02 °/° or 0.2°/° for thermocouples <i>*span drift value includes offset drift</i>
Refresh	3 refresh / second
Power 'H'	85 to 265 Vac/dc (isolated 2500 Veff)
Power 'L'	11 to 60 Vdc and 24/48 Vac (isolated 1500 Veff)
Retransmission and control options	relays, analog output, serial communications, ...
Consumption	<1.5 W (meter only) <4.0 W (meter with options)
Front protection	IP65
Connections	plug-in screw terminal
Weight	<150 grams
Mounting	panel
Front size	96 x 48 mm
Panel cut-out	92 x 44 mm
Deep	91 mm (including terminals)
Operating temperature	0 to 50 °C

Dimensions and connections



Detail of the plug-in screw terminal. The instrument is provided with all male and female terminals needed.

Order reference

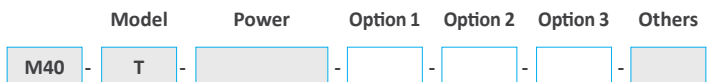


* Relays R1 with contacts (NC / NO / Common), max. 250 Vac 8 A
 * Special options with 4 and 6 relays.
 * Analog outputs and serial outputs, isolated.

Functions included

- 'Fast access' menu a single press on the front keypad gives access to alarm setpoint modification, special functions, memory of maximum and minimum reading, ...
- 'On power-up' function protects remote systems by delaying the output and control signals at cold start-up.
- Function '° on display' enables the '°' symbol at the right of the display.
- Function 'Manual offset' allows to add a number of counts to the display reading.
- Function 'Cold junction' allows to enable or disable the automatic compensation of the thermocouple cold junction.
- Function 'Sensor break' allows to define the behavior of the display in case of sensor break.
- Alarms with one or two setpoints, independent activation and deactivation delays, hysteresis, optional manual deactivation of the relay.
- Inverted relay for security applications, relay can be configured with inverted function.
- Display filters configurable reading in predefined steps.
- Brightness 5 levels of brightness intensity.
- Password blocks access to configuration menu.

Output and control options



	Function	Installable options	Isolated
R1	1 relay output	3	yes
T1	1 transistor output	3	yes
SSR	1 control for SSR relay	3	yes
AO	1 analog output	3	yes
RTU	1 Modbus RTU port	3	yes
S4	1 RS-485 port	3	yes
S2	1 RS-232 port	3	yes
R2, R4, R6	special modules up to 6 relay outputs. Check for information.		

Other options

Option NBT



Without front keypad

Option G



Green leds

Accessories

WME



Wall mount

DRA



DIN rail mount

THM



Benchtop housing

KIP



Protector IP65

KA96



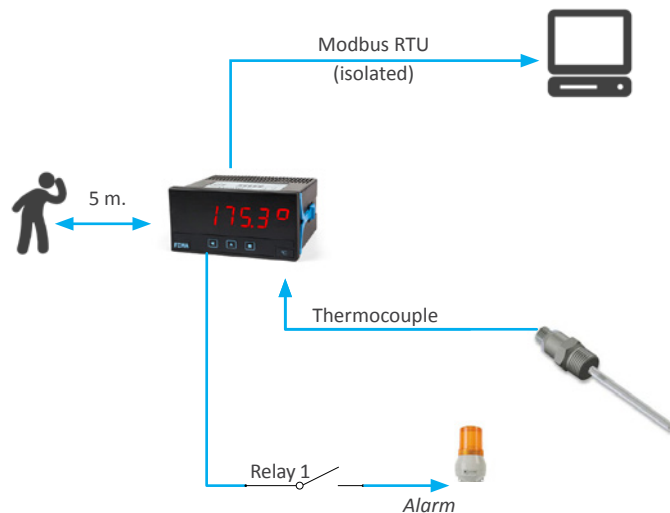
Adapter 96 x 96 mm

Additional documentation

- M40-T user's manual www.fema.es/docs/2185_M40-T_manual_en.pdf
- M40-T datasheet www.fema.es/docs/3176_M40-T_datasheet_en.pdf
- Options user's manual www.fema.es/docs/4254_SERIES_M-K-S_OPTIONS_manual_en.pdf

Application example

Measure of temperature from a thermocouple probe, with relay output to control a buzzer in case of exceeding temperature. Retransmission of the reading value to a remote SCADA of PLC unit through an isolated MODBUS RTU bus.



Reading distances



Other Temperature meters

Series M

4, 5 and 6 digits

- digit height 14 mm
- color red, green
- vision 5 meters
- size 96 x 48 mm

DIGITAL PANEL METER
SERIES M
Full Signal Ranges Available



Series K

Further view

- digit height 20 mm
- color red
- vision 8 meters
- size 96 x 48 mm

DIGITAL PANEL METERS
SERIES K
20 mm Digit Size



Series S

Compact size

- digit height 14 mm
- color red, green
- vision 5 meters
- size 72 x 36 mm

DIGITAL PANEL METERS
SERIES S
Compact Size 72x36 mm

