

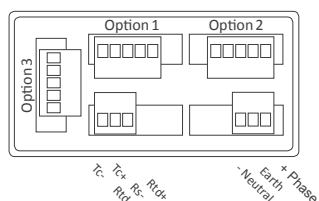
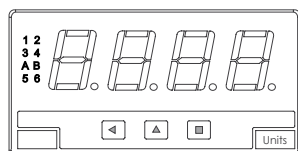
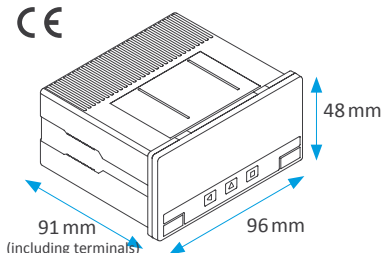
K40-T Temperature panel meter

Panel meter with 20mm digit height, in 96x48mm (1/8 DIN) standard size, for panel mount. Accepts signals from Pt100/RTD and thermocouple probes J, K, T, E, S, R, N, C, L and X. Reading in °C or °F. Configurable cold junction compensation. Configurable manual offset. Universal high and low AC and DC power options. Optional retransmission and control modules with relays, analog outputs and serial outputs.

Technical specifications

Digits	4
Reading	9999/-1999
Decimal point	configurable
Led color	red
Digit height	20 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 *span drift value includes offset drift
Refresh	3 refresh / second
Power 'H'	85 to 265 Vac/dc (isolated 2500 Veff)
Power 'L'	11 to 60 Vdc y 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)
Protection	IP54 standard (optional 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

Model	Power	Option 1	Option 2	Option 3	Others
K40 -	T -	H -			
	-H (85-265 Vac/dc) -L (11/60 Vdc, 24 Vac, 48 Vac)	- R1 (1 relay) - AO (analog output) - RTU (Modbus RTU) - S4 (RS-485) - S2 (RS-232) - (empty)			- NBT (no keypad) - 65 (front IP65)

* Relays R1 with contacts (NC / NO / Common), max. 250 Vac 8 A

* Special options with 4 and 6 relays.

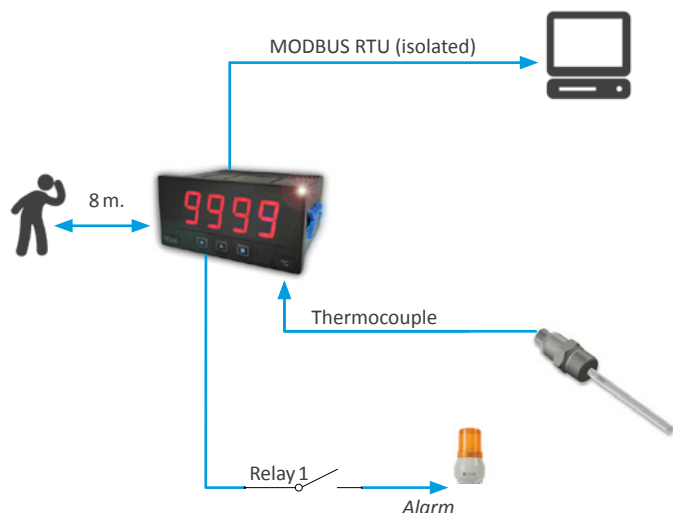
* Analog outputs and serial outputs, isolated.

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 '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.

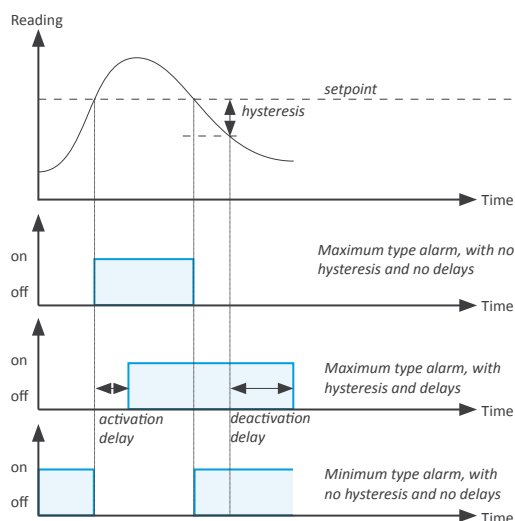
Application example

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.



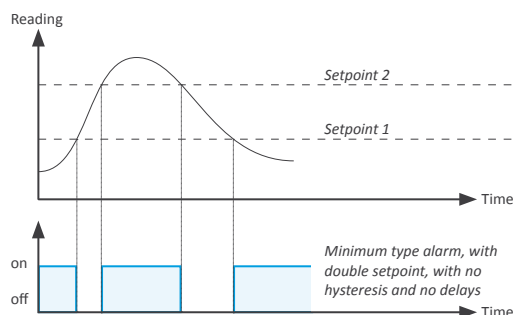
Alarms example

Alarms with one setpoint, configurable deactivation hysteresis, independent activation and deactivation delays.



Double setpoint alarms

Alarms with double setpoint, configurable as maximum or minimum, allow to create activation or deactivation windows..



Other options and accessories

Options for K Series of instruments and mounting accessories for 96x48 mm housings of K Series.



NBT - Without front keypad



WME - Wall mount housing



DRA - DIN rail mount adapter



65 - IP65 front sealing



THM - Benchtop housing



KIP - Protector IP65



KA96 - 96x96 mm adapter

Web documentation

K40-T user's manual

www.fema.es/docs/3833_K40-T_manual_i.pdf

K40-T datasheet

www.fema.es/docs/3832_K40-T_datasheet_i.pdf

Reading distances

Reading distances and series of product for panel meters with digit height starting at 10 mm and up to 100 mm.

Digit height (mm)	10	14	20	60	100
Reading distance	4 m	5 m	8 m	20 m	40 m
Series	L35	Series M	Series K	BDF-24	BDF-44