# M40-P Process panel meter

Panel meter for process signals in mA y Vdc. Reading at 4 digits with 14 mm digit height. Standard 96 x 48 mm (1/8 DIN) size, for panel mount. Provides excitation voltage to power the transducer. 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**

Reading 9999 / -9999
Decimal point configurable
Led color red or green
Digit height 14 mm

Signal ranges 4/20 mA, 0/10 Vdc,  $\pm$ 20 mA,  $\pm$ 10 Vdc, ... Excitation voltage  $\pm$ 20 Vdc,  $\pm$ 15 Vdc,  $\pm$ 10 Vdc,  $\pm$ 5 Vdc (max. 35 mA)

 Accuracy
 0.05% F.S. ±1 digit

 Offset drift
 10 ppm/ºC

 Span drift\*
 25 ppm/ºC

\*span drift value includes offset drift

Readings 15 readings / second
Refresh 15 refresh / second

Response time <120 mSec. (0 % to 99 % signal)
Input impedance 11 Ohm in mA, 932 KOhm in Vdc
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

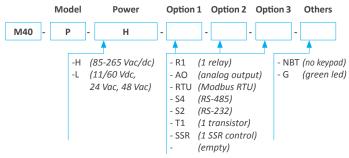
Panel cut-out 92 x 44 mm

Deep 91 mm (including terminals)

Operating temperature 0 to 50 °C

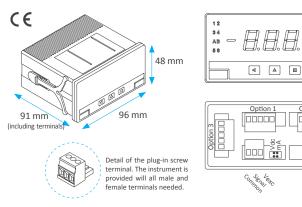
#### Madel Deview

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.

## **Dimensions and connections**





Segment linearization...... up to 20 segments for linearization of signals from

irregular shaped volumes, tanker ships, ...

'Fast access' menu . . . . . . a single press on the front keypad gives access to

alarm setpoint modification, special functions, memory of maximum and minimum reading....

'Field correction' function . . . for fast and easy offset corrections when installing

on the field.

'On power-up' function . . . . protects remote systems by delaying the output

and control signals at cold start-up.

'Measure' function..... for troubleshooting purposes, it displays the actu-

al signal at input terminals, directly in mA or Vdc,

without scaling.

Alarms . . . . . . . . . . . with one or two setpoints, independent activation and deactivation delays, hysteresis, optional manu-

and deactivation delays, hysteresis, optional manial deactivation of the relay.

ai deactivation of the relay

Inverted relay . . . . . for security applications, relay can be configured with inverted function.

itti ilivertea fullctioni

'Tare' function..... for weight applications.

'Peak & hold' function . . . . . for test-break applications.

Display filters.... recursive filters for noisy signals, optional reading in predefined steps, configurable fixed digits, ...

predefined steps, configurable fixed t

Password . . . . . blocks access to configuration menu.

Brightness . . . . . . . 5 levels of brightness intensity.



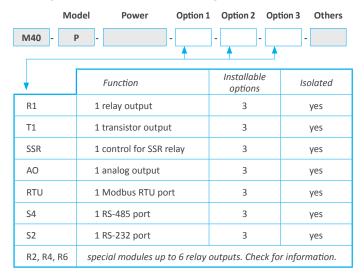








# **Output and control options**



#### Other options





#### **Accessories**





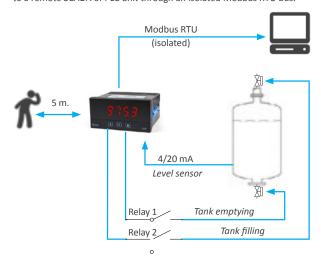






# **Application example**

Measure of level from an irregular tank, with relay outputs to the solenoid valves that control the filling and emptying of the tank. Retransmission of the reading value to a remote SCADA of PLC unit through an isolated Modbus RTU bus.



## **Reading distances**

Digit height (mm)	10	14	20	60	
Reading distance	4 m	5 m	8 m	20 m	40 m
Series	L	M,S	K	B2x	B4x

#### **Other Process meters**















