AC Voltmeter and Ammeter S40-A

Panel meter with compact 72 x 36 mm size, and 14 mm digit height, for panel mount. AC Voltmeter and AC Ammeter with multiple input scales up to 600 Vac and up to 5 Aac. True RMS measure. 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 / -1999 Decimal point configurable Led color red or green Digit height

600 Vac, 100 Vac, 10 Vac, 1 Vac, 0.1 Vac Signal ranges

5 Aac. 1 Aac Reading scalable Type of measure True RMS

Coupling 'AC' or 'AC+DC' (by internal jumper selection)

Accepted connections phase - neutral and phase - phase Oversignal up to +20 % of the scale Bandwith 1.3 KHz for measures in Vac 2.0 KHz for measures in Aac Crest factor 3 for nominal accuracy

5 for accuracy 2.5 % F.S.

0.15 % to 0.25 % F.S. depends on the range Accuracy Offset drift 75 ppm/°C to 150 ppm/°C depends on the range Span drift* 100 ppm/°C to 200 ppm/°C depends on the range

*span drift value includes offset drift

Readings 15 readings / second

<300 mSec. (0 % to 99 % signal) Response time to the step Input impedance depends on range (see User's Manual) Power 'H' 85 to 265 Vac/dc (isolated 2500 Veff)

11 to 60 Vdc and 24/48 Vac (isolated 1500 Veff) Power 'L' relays, analog output, serial communications, ... Retransmission and control options

Consumption <1.5 W (meter only)

<4.0 W (meter with options)

Protection front

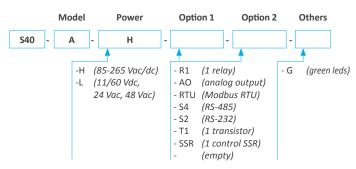
Connections plug-in screw terminal

Weight <150 grams Mounting panel Front size 72 x 36 mm Panel cut-out 69 x 32.5 mm

98 mm (including terminals)

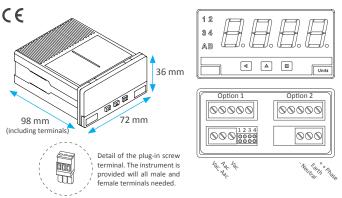
Operating temperature 0 to 50 °C

Order reference



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

Dimensions and connections



Functions included

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.

DC component filter configurable filter to block the DC component of the

signal.

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

and control signals at cold start-up.

with one or two setpoints, independent activation

and deactivation delays, hysteresis, optional manu-

al deactivation of the relav.

Inverted relay for security applications, relay can be configured

with inverted function.

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

Display filters..... recursive filters for noisy signals, optional reading in

predefined steps, configurable fixed digits, ... Brightness 5 levels of brightness intensity.

Password blocks access to configuration menu.







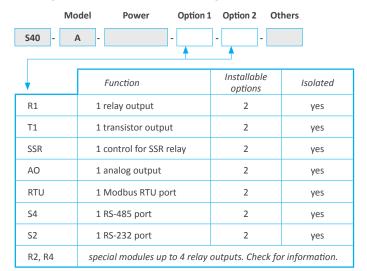


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Output and control options



Other options

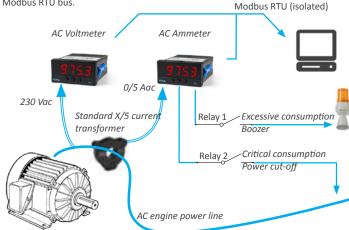


Accessories



Application example

Measure of current consumption on an AC engine measured through a standard X/5 current transformer, and measure of the 230 Vac voltage level of the power line. A first relay output signal the excessive consumption for operator intervention. A second relay output controls the power cut-off in case of critical consumption. 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	<i>60</i>	
Reading distance	4 m	5 m	8 m	20 m	40 m
Series	L	M,S	K	B2x	B4x

Other Voltmeters and Ammeters AC



















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