DC Voltmeter and Ammeter S40-D

Panel meter with compact 72 x 36 mm size, and 14 mm digit height, for panel mount. DC Voltmeter and DC Ammeter with multiple input scales up to 600 Vdc and up to 5 Adc. 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 Reading 9999 / -1999 Decimal point configurable Led color red or green Digit height 14 mm

±600 Vdc, ±100 Vdc, ±10 Vdc, ±1 Vdc, ±0.1 Vdc Signal ranges

±5 Adc, ±1 Adc

Reading scalable 0.10 % FS in Vdc Accuracy

0.15 % FS in Adc

Offset drift 50 ppm/ºC Span drift* 100 ppm/ºC

*span drift value includes offset drift

Readings 15 readings / second

Response time to the step <210 mSec. (0 % to 99 % signal) *<75 mSec. for changes below 10 %

Input impedance depends on range (see User's Manual) Power 'H' 85 to 265 Vac/dc (isolated 2500 Veff)

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

Consumption <1.5 W (meter only) <4.0 W (meter with options)

Protection front IP54

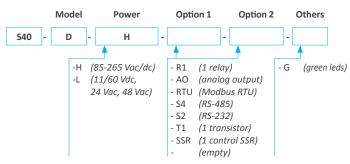
Connections plug-in screw terminal

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

98 mm (including terminals) Deep

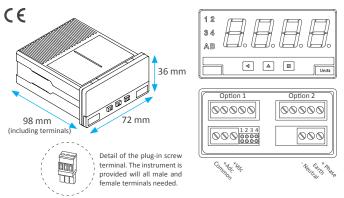
Operating temperature 0 to 50 °C

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.

'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 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.







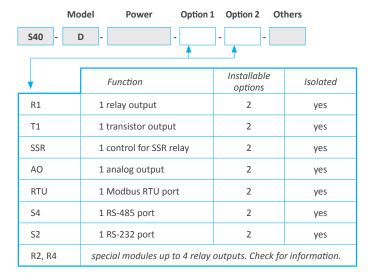


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Output and control options



Other options

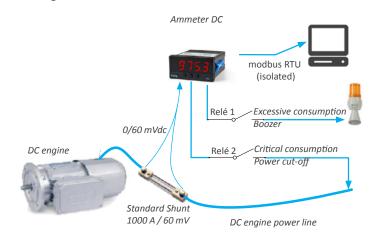


Accessories



Application example

Measure of current consumption on an DC engine measured through a standard 1000 Adc / 60 mVdc shunt. 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	60	
Reading distance	4 m	5 m	8 m	20 m	40 m
Series	L	M,S	K	B2x	B4x

Other Voltmeters and Ammeters DC















5 YEARS



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