

This low cost, compact indicator is ideally suited for low or high volume applications. SP 5-1200-40 is an easy to mount LCD digital panel meter. The module features a 4 to 40V measurement range with 200mV resolution and is powered from the signal it is measuring. Only valid readings are displayed; the module indicates "LO" at voltages below 4V and "HI" at voltages above 40V. Screw terminals allow for quick and easy connection. The module is panel mounted using the metal clip provided and a rubber seal is included, providing splashproof protection for the unit when fitted to the meter during installation.

- 🔌 2-Wire Operation (excluding backlighting)
- 🔌 4 to 40V d.c. Full Scale Reading
- 🔌 18mm / 0.7" LCD Digit Height
- 🔌 Reverse Polarity Protection
- 🔌 No Calibration Required (pre-calibrated for use)
- 🔌 Splashproof
- 🔌 LED Backlighting (via separate supply)
- 🔌 Screw Terminal Connections

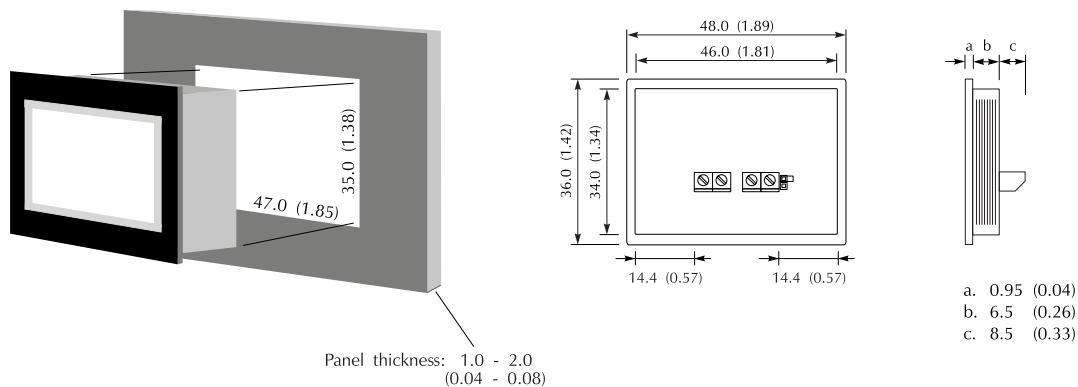


ELECTRICAL SPECIFICATIONS

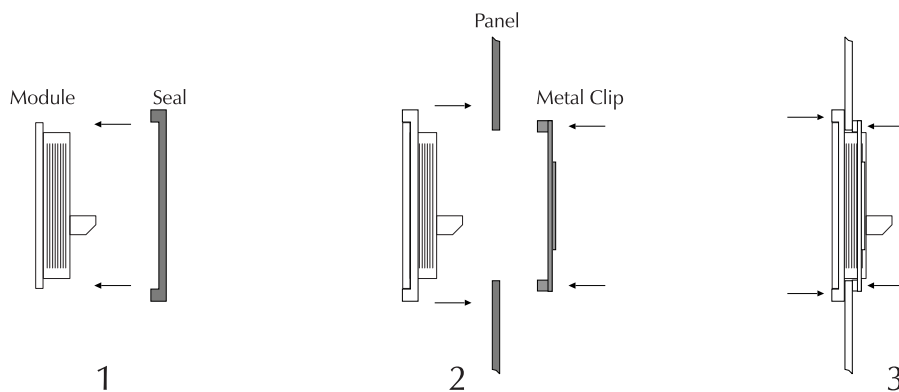
Specification		Min.	Typ.	Max.	Unit
Accuracy (overall error)			0.2		V (± 1 count)
Linearity				± 1	count
Valid displayed reading*		4.0		40.0	V d.c.
Resolution			200		mV d.c.
Sample rate			3		samples/sec
Operating temperature range		0		50	$^{\circ}\text{C}$
Supply voltage	Meter	3		50	V d.c.
	Backlighting		5		V d.c.
Supply current	Meter (@ 9V d.c.)		1.5		mA
	Backlighting (@ 5V d.c.)		50		mA

DIMENSIONS

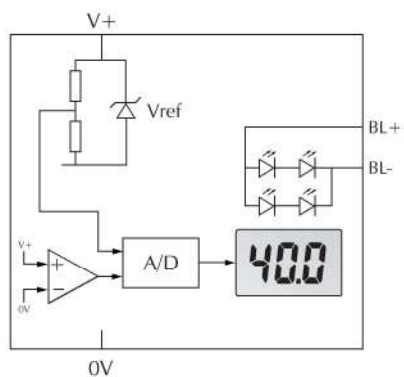
All dimensions in mm (inches)



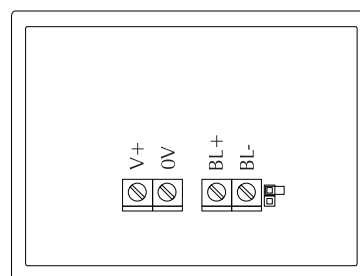
PANEL FITTING



FUNCTIONAL BLOCK DIAGRAM



CONNECTIONS (rear view)



Specifications liable to change without prior warning

SP 5-1200-40

Issue 6

06/2010

S.L.

Applies to SP 5-1200/2



SCREW TERMINAL FUNCTIONS

V+ Positive power supply to the meter/voltage being measured.
 0V 0V power supply to the meter/voltage being measured.

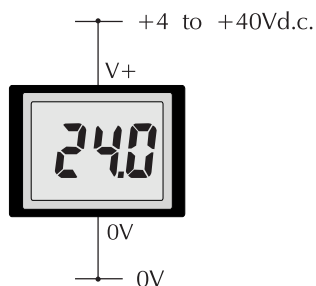
BL+ Positive power supply to the LED backlighting.
 BL- Negative power supply to the LED backlighting.

When the jumper link is placed over both pins, located next to the screw terminals, this connects the 0V of the LED backlighting to the 0V of the signal being measured. This allows for 3-wire operation of the module.
 This connection should only be made if both power supplies can share a common 0V line.

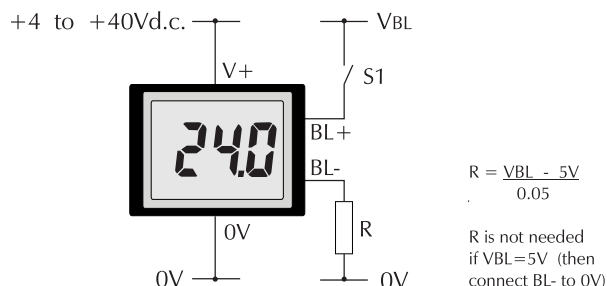
SCALING

This module cannot be re-scaled for other voltage or current scales.

APPLICATIONS



Measuring a voltage in the range 4 to 40V d.c.



Powering the LED backlighting from a separate supply.
 Close switch S1 to turn on the backlighting.

Note: - add a series resistor R if the backlighting supply voltage is higher than 5V d.c.