PRODUCT DESCRIPTION

The SP 400-BLUE features a 200mV d.c. measurement range with auto-zero and auto-polarity. Decimal points are user selectable. The SP 400-BLUE features a negative rail generator which enables the meter to measure a signal referenced to its own power supply GND. Blue LED backlighting ensures excellent readability under low light conditions. The module is easily fitted into the panel, using the fixing clip provided. The module's low cost means it will suit high and low volume applications. The design of the panel meter's housing ensures splash proofing using the supplied seal.

FEATURES

- 9.75mm (0.38") Digit Height
- 200mV d.c. Full Scale Reading
- 3.0 to 7.5V or 6.0 to 15.0V Operation
- Auto-zero and Auto-polarity
- Programmable Decimal Points
- Blue LED Backlighting
- · Low Battery Warning
- Splash Proof



TYPICAL APPLICATIONS

- Precision Instrumentation Systems
- Power Supply Monitoring
- Test Boxes
- Panel-Mount Indication
- Low Power Voltage Measurement

ORDERING INFORMATION

	Stock Number
Standard Meter	SP 400-BLUE

ELECTRICAL SPECIFICATIONS

Specification		Min.	Тур.	Max.	Unit
Accuracy (overall error) *			0.1		% (±1 count)
Linearity				±1	count
Sample rate			2.5		samples/sec
Operating temperature range		0		50	°C
Temperature stability			100		ppm/°C
Supply voltage	V+ to GND configuration	3.0	5.0	7.5	V d.c.
	V+ to V- configuration	6.0	9.0	15.0**	V d.c.
Supply current	V+ to GND configuration		350		μΑ
	V+ to V- configuration		175		μΑ
Backlight supply voltage			7.5 ***	8.0	V d.c.
Backlight supply current @ 7.5V d.c.			9****		mA
Input leakage current (Vin = 0V)			1	10	pА

^{*} To ensure maximum accuracy, re-calibrate periodically.

Unless otherwise noted, specifications apply at $T_A = 25$ °C, $V_{uupply} = 5$ Vd.c. $(f_{dock} = 48$ kHz) and are tested with the module configured for single ended input mode.

SAFETY

To comply with the Low Voltage Directive (LVD 93/68/EEC), input voltages to the module's pins must not exceed 60Vdc. The user must ensure that the incorporation of the panel meter into the user's equipment conforms to the relevant sections of BS EN 61010 (Safety Requirements for Electrical Equipment for Measuring, Control and Laboratory Use).



^{**} Operation of the meter beyond the maximum supply voltage rating may cause permanent damage to the meter.

^{***} An external series resistor is required above 7.5V, see Applications.

^{****} This specification linearly derates to 5 mA @ 50°C.









