

FEATURES

- Measures DCA, DCV, ACA, ACV, Temperature
- Accuracy: $\pm 0.1\%$ (DC), $\pm 0.25\%$ (AC), $\pm 1\%$ (Thermocouple), $\pm 0.2\%$ (Pt100)
- 3 1/2 Digital display: 1999
- Easy-to-wire, screw type terminal
- Outside dimensions is 1/32 DIN standard (48x24mm)
- High stability & low cost



MEASUREMENT

Measuring Range	Resolution	Input Impedance	Variable to be Measured
Current	1999 μ A	0.1 μ A	< 1K Ω m
	1999 mA	0.001 mA	< 100 Ω m
	1999 mA	0.01 mA	< 10 Ω m
	1999 mA	0.1 mA	< 1 Ω m
	1999 A	0.001 A	< 0.05 Ω m
Voltage	1999 mV	0.1 mV	> 5M Ω m
	1999 V	0.001 V	> 1M Ω m
	1999 V	0.01 V	> 1M Ω m
Temp.	T/C: K 0-1200	> 1M Ω m	AC/DC
	T/C: J 0-750	> 1M Ω m	
	Pt100: 400-1999	> 1M Ω m	
	Pt100: 0-600	> 1M Ω m	

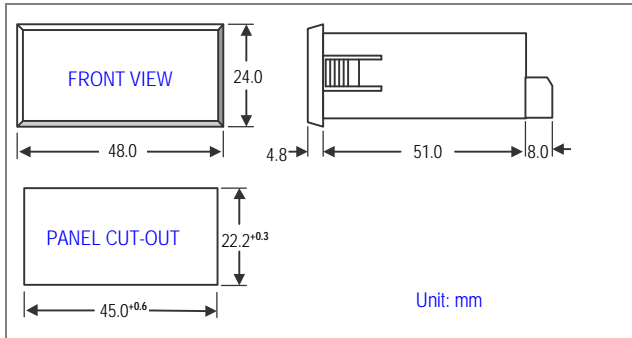
ADJUSTMENT

Span adjust pot (Clockwise: PV Decrease)

Zero adjust pot (Clockwise: PV Decrease)

The meter is calibrated at the factory per order. If your meter will need to be re-calibrated. Please refer to page A-

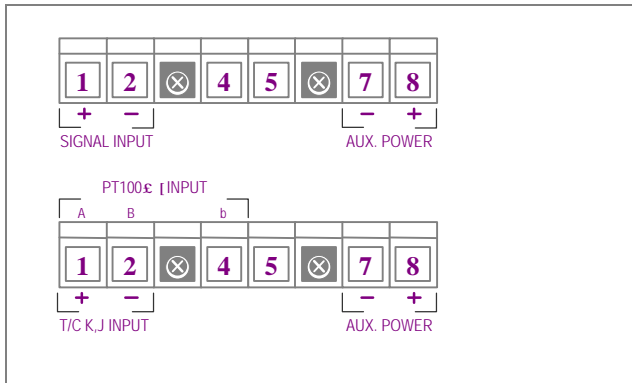
DIMENSIONS



SPECIFICATION

Measuring:	DC: $\pm 0.1\%$ F.S. ± 1 digit AC: $\pm 0.25\%$ F.S. ± 1 digit T/C(K,J): $\pm 1\%$ F.S. ± 1 digit Pt100: $\pm 0.2\%$ F.S. ± 1 digit
Span adjustment:	< 5% of R.O.
Zero adjustment:	< 2% of R.O.
Sampling time:	About 3 cycles/sec.
Polarity display:	When input is negative "-"
Over-range indication:	"1" display
Max. input over capability:	Voltage: 1.2 x rated continuous 1.5 x rated for 10 seconds Current: 1.5 x rated continuous
Decimal point:	Specify
Operation temperature:	0-60
Operation relative humidity:	20-95 %R.H.
Temperature coefficient:	< 100 PPM/ (0-50) < 50 PPM/ (23 \pm 3)
Storage temperature:	-10-70
Power Supply:	5Vdc $\pm 5\%$ (Aux. Power(-) & Signal input(-) are common inside) Option: DC 5V, 12V, 24V $\pm 5\%$ (Isolated)
Power consumption:	700mW
Weight:	About 55g

CONNECTION DIAGRAM



ORDER INFORMATION

CSMS-321 Input Type — Input Range — Aux. Power

CODE	INPUT TYPE	CODE	INPUT RANGE	CODE	INPUT RANGE	CODE	AUX. POWER
D	DC	A	199.9 μ A	1	0-50 mV	K	K 0-1200
A	AC	B	1.999 mA	2	199.9 mV	J	J 0-750
T	Temperature	C	19.99 mA	3	1.999 V	P1	Pt100 -40.0-199.9
		D	199.9 mA	4	19.99 V	P2	Pt100 0-600
		E	1.999 A	5	199.9 V	O	Specify
		F	4-20 mA	6	250 V		
		O	Specify	O	Specify		
						D	DC 5V
						D5	DC 5V (Isolated)
						D12	DC 12V (Isolated)
						D24	DC 24V (Isolated)
						O	Specify