

4 1/2 DIGITAL PANEL METER

CSM-421

FEATURE

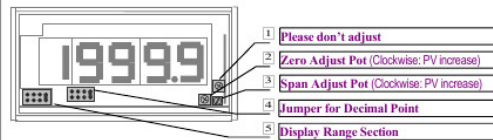
- Measuring DCA, DCV, ACA, ACV, Hz
- Accuracy: DC: $\pm 0.04\%$, AC: $\pm 0.1\%$
- 4 1/2 Digital display: 19999
- Easy-to-wire, screw type terminal
- Outside dimensions is 1/8 DIN standard (96x48mm)
- High stability & low cost



MEASUREMENT

Measuring Range	Resolution	Input Impedance	Variable to be Measured	
Current	199.99 μ A	0.01 μ A	≤ 1 K ohm	DC AC TRMS
	1.9999 mA	0.0001 mA	≤ 100 ohm	
	19.999 mA	0.001 mA	≤ 10 ohm	
	199.99 mA	0.01 mA	≤ 1 ohm	
	1.9999 A	0.0001 A	≤ 0.05 ohm	
	5.000 A	0.001 A	≤ 0.02 ohm	
10.000 A	0.001 A	≤ 0.01 ohm		
Voltage	199.99 mV	0.01m V	≥ 5 M ohm	
	1.9999 V	0.0001 V	≥ 1 M ohm	
	19.999 V	0.001 V	≥ 1 M ohm	
	199.99 V	0.01 V	≥ 1 M ohm	
	300.0 V	0.1 V	≥ 1 M ohm	
	600.0 V	0.1 V	≥ 1 M ohm	
Freq.	199.99 Hz	0.01 Hz	≥ 1 M ohm	Hz
	1999.9 Hz	0.1 Hz	≥ 1 M ohm	

ADJUSTMENT



Display Range Section:

Section	Jumper	Display Range	Section	Jumper	Display Range
1	[Diagram]	19999~17000	5	[Diagram]	9000~ 6250
2	[Diagram]	17250~13000	6	[Diagram]	6250~ 4250
3	[Diagram]	13000~ 9000	7	[Diagram]	4250~ 3000
4	[Diagram]	12000~ 8250	8	[Diagram]	3000~ 2000

Decimal Point Jumper:

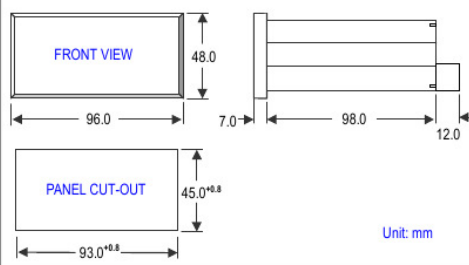


The meter is calibrated at the factory per order. If your meter will need to be re-calibrated. Please refer to page A- I .

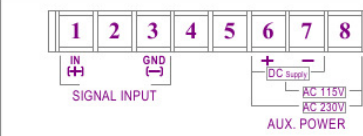
SPECIFICATION

- Measuring:** DC: $\pm 0.04\%$ F.S. ± 1 digit
AC: $\pm 0.1\%$ F.S. ± 1 digit
Current: 20 Amax. Volt: 1000 Vmax.
- Span adjustment:** $\leq 10\%$ of R.O.
- Zero adjustment:** $\leq 2\%$ of R.O.
- Sampling time:** About 3 cycles/sec.
- Polarity display:** When input is negative "-"
- Over-range indication:** "0000" flash
- Max. input over capability:** Voltage: 1.2 x rated continuous
: 1.5 x rated for 10 seconds
Current: 10 x rated for 10 seconds
Settable to any digit position
- Decimal point:** Settable to any digit position
- Operation temperature:** 0~60 $^{\circ}$ C
- Operation relative humidity:** 20~95 %R.H.
- Temperature coefficient:** ≤ 100 PPM/ $^{\circ}$ C (0~50 $^{\circ}$ C)
 ≤ 50 PPM/ $^{\circ}$ C (23 ± 3 $^{\circ}$ C)
- Storage temperature:** -10~70 $^{\circ}$ C
- Power Supply:** AC: 115/230V $\pm 10\%$, 50/60 Hz
Option: DC 12 V, 24V, 48V $\pm 10\%$ (Isolated)
- Power consumption:** DC: 3W, AC: 4.5 VA
- Dielectric Strength:** AC 2.0 KV for 1 min. (Between Power / Input)
AC 3.0 KV for 1 min. (Between Terminal / Case)
- Weight:** About 370g

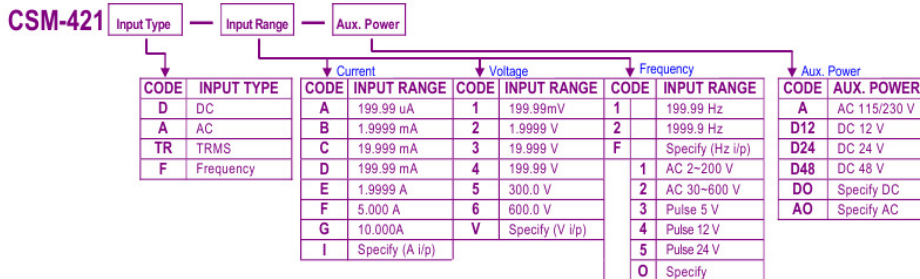
DIMENSIONS



CONNECTION DIAGRAM



ORDER INFORMATION



A-3