4½ Digit *AC/DC Volts / Amps / Hz*

CSM-421

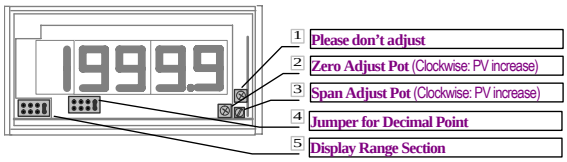
► FEATURES

- Measures and Displays DCA, DCV, ACA, ACV, Hz
- Accuracy: DC: ±0.1% , AC: ±0.2%
- 4½ Digit display: 1999
- Easy-to-wire, screw terminals
- High stability & low cost

► MEASUREMENT

Measuring Range		Resolution	Input Impedance	Meas. Variable
Current	199.99 uA	0.01 uA	≦1K 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	≧5M ohm	
	1.9999 V	0.0001 V	≧1M ohm	
	19.999 V	0.001 V	≧1M ohm	
	199.99 V	0.01 V	≧1M ohm	
	300.0 V	0.1 V	≧1M ohm	
	600.0 V	0.1 V	≧1M ohm	
Freq.	199.99 Hz	0.01 Hz	≧1M ohm	Hz
	1999.9 Hz	0.1 Hz	≧1M ohm	

► ADJUSTMENT



5 Display Range Section:

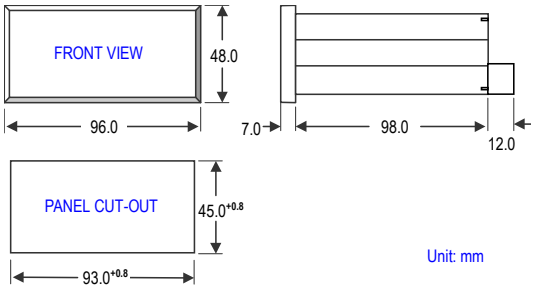
Section	Jumper	Display Range	Section	Jumper	Display Range
1		19999~17000	5		9000~ 6250
2		17250~13000	6		6250~ 4250
3		13000~ 9000	7		4250~ 3000
4		12000~ 8250	8		3000~ 2000

4 Decimal Point Jumper:

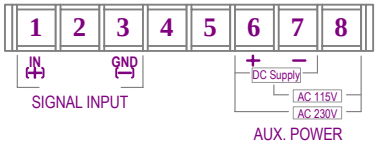
► SPECIFICATION

Measuring accuracy: DC / AC	±0.04% F.S. ±1 digit / ±0.1% F.S. ±1 digit
Span adjustment:	≤10% of F.S.
Zero adjustment:	≤2% of F.S.
Sampling time:	Circa 3 cycles/sec.
Polarity indication:	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: 10 x rated continuous
Decimal point:	Set by jumper behind front
Operating temperature:	0~60°C
Operating relative humidity:	20~95 %RH
Temperature coefficient:	≤100 PPM/°C (0~50°C) ≤50 PPM/°C (23±3°C)
Storage temperature:	-10~70°C
Power Supply:	AC 115/230V ±10%, 50/60 Hz Option: DC 5 V, 12V, 24V, 48V ±10% (Isolated)
Excitation supply:	Option: DC 10V, 12V, 24V, 30mA
Power consumption:	DC 3W, AC 4.5VA
Dielectric Strength:	AC 2.0KV for 1 min (Power / Input) AC 3.0KV for 1 min (Terminal / Case)
Weight:	350g

► DIMENSIONS



► CONNECTION DIAGRAM



► ORDER CODING

CSM-421 [Input Type] — [Input Range] — [Aux. Power]

CODE	INPUT TYPE
D	DC
A	AC
TR	TRMS
F	Frequency

Current

CODE	INPUT RANGE
A	199.99 uA
B	1.9999 mA
C	19.999 mA
D	199.99 mA
E	1.9999 A
F	5.000 A
G	10.000A
I	Specify (A i/p)

Voltage

CODE	INPUT RANGE
1	199.99mV
2	1.9999 V
3	19.999 V
4	199.99 V
5	300.0 V
6	600.0 V
V	Specify (V i/p)

Frequency

CODE		INPUT RANGE
1		199.99 Hz
2		1999.9 Hz
F		Specify (Hz i/p)
	1	AC 2~200 V
	2	AC 30~600 V
	3	Pulse 5 V
	4	Pulse 12 V
	5	Pulse 24 V
	O	Specify

Aux. Power

CODE	AUX. POWER
A	AC 115/230 V
D12	DC 12 V
D24	DC 24 V
D48	DC 48 V
DO	Specify DC
AO	Specify AC