

3½ Digit AC/DC Volts / Amps / Hz

CSM-321

► FEATURES

- Measures and Displays DCA, DCV, ACA, ACV, Hz
- Accuracy: DC: $\pm 0.1\%$, AC: $\pm 0.2\%$
- 3½ Digit display: 1999
- Peak Hold function (Option)
- Easy-to-wire, screw terminals
- High stability & low cost



► MEASUREMENT

Measuring Range	Resolution	Input Impedance	Variable to be Measured
Current	199.9 μ A	0.1 μ A	$\leq 1K$ ohm
	1.999 mA	0.001 mA	≤ 100 ohm
	19.99 mA	0.01 mA	≤ 10 ohm
	199.9 mA	0.1 mA	≤ 1 ohm
	1.999 A	0.001 A	≤ 0.05 ohm
	5.00 A	0.01 A	≤ 0.02 ohm
	10.00 A	0.01 A	≤ 0.01 ohm
Voltage	199.9 mV	0.1m V	$\geq 5M$ ohm
	1.999 V	0.001 V	$\geq 1M$ ohm
	19.99 V	0.01 V	$\geq 1M$ ohm
	199.9 V	0.1 V	$\geq 1M$ ohm
	300 V	1 V	$\geq 1M$ ohm
	600 V	1 V	$\geq 1M$ ohm
Freq.	199.9 Hz	0.1 Hz	Hz
	1999 Hz	1 Hz	

► ADJUSTMENT

- Zero Adjust Pot for AC only (Clockwise: PV increase)
- Span Adjust Pot (Clockwise: PV increase)
- Zero Adjust Pot for DC only (Clockwise: PV increase)
- Jumper for Decimal Point
- Display Range Selection

5 Display Range Selection:

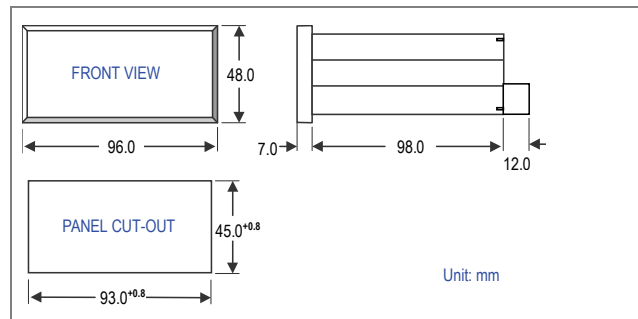
Section	Jumper	Display Range	Section	Jumper	Display Range
1	[Diagram]	1999-1700	5	[Diagram]	900-625
2	[Diagram]	1725-1300	6	[Diagram]	625-425
3	[Diagram]	1300-900	7	[Diagram]	425-300
4	[Diagram]	1200-825	8	[Diagram]	300-200

4 Decimal Point Jumper: [Diagram showing jumper on terminals 1 and 2]

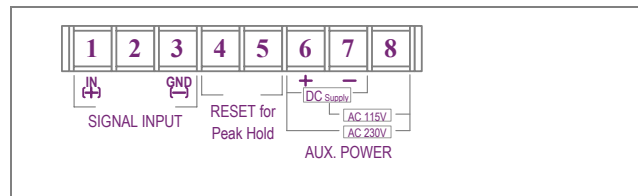
► SPECIFICATION

Measuring accuracy: DC / AC $\pm 0.1\%$ F.S. ± 1 digit / $\pm 0.2\%$ F.S. ± 1 digit
 Span adjustment: $\leq 10\%$ of F.S.
 Zero adjustment: $\leq 2\%$ 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 \pm 3°C)
 Storage temperature: -10-70°C
 Power Supply: AC 115/230V $\pm 10\%$, 50/60 Hz
 Option: DC 5 V, 12V, 24V, 48V $\pm 10\%$
 (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: 370g

► DIMENSIONS



► CONNECTION DIAGRAM



► ORDER CODING

CSM-321 [Input Type] [Input Range] [Aux. Power]

CODE	INPUT TYPE	CODE	OPTION	CODE	INPUT RANGE	CODE	INPUT RANGE	CODE	INPUT RANGE	CODE	AUX. POWER
D	DC	N	None	A	199.9 μ A	1	199.9 mV	1	199.9 Hz	A	AC 115/230 V
A	AC	H	Peak Hold	B	1.999 mA	2	1.999 V	2	1999 Hz	D12	DC 12 V
TR	TRMS			C	19.99 mA	3	19.99 V		Specify Hz	D24	DC 24 V
F	Frequency			D	199.9 mA	4	199.9 V			D48	DC 48 V
				E	1.999 A	5	300 V	1	AC 2-200V	DO	Specify DC
				F	5.00 A	6	600 V	2	AC 30-600 V	AO	Specify AC
				G	10.00A	V	Specify (V i/p)	3	Pulse 5 V		
				I	Specify (A i/p)			4	Pulse 12 V		
								5	Pulse 24 V		
								O	Specify		