

CSM-321 3 1/2 DIGITAL PANEL Meter

CSM-321

FEATURE

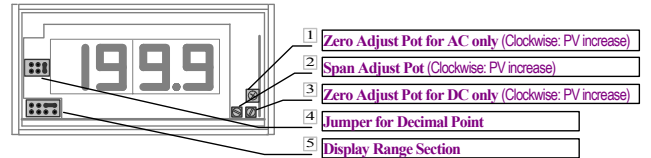
- Measuring DCA, DCV, ACA, ACV, Hz
- Accuracy: DC: $\pm 0.1\%$, AC: $\pm 0.2\%$
- 3 1/2 Digital display: 1999
- Easy-to-wire, screw type terminal
- Outside dimensions is 1/8 DIN standard (96x48 mm)
- High stability & low cost



MEASUREMENT

Measuring Range	Resolution	Input Impedance	Variable to be Measured	
Current	199.9 uA	0.1 uA	$\geq 1K$ ohm	DC AC TRMS
	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	
Voltage	10.00 A	0.01 A	≥ 0.01 ohm	
	199.9 mV	0.1mV	$\geq 5M$ 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	
Freq.	600 V	1 V	$\geq 1M$ ohm	
	199.9 Hz	0.1 Hz	$\geq 1M$ ohm	Hz
1999 Hz	1 Hz	$\geq 1M$ ohm		

ADJUSTMENT



5 Display Range Section:

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

4 Decimal Point Jumper:



SPECIFICATION

Measuring:

DC: $\pm 0.1\%$ F.S. ± 1 digit
 AC: $\pm 0.2\%$ F.S. ± 1 digit
 Option: 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:

"1" display

Max. input over capability:

Voltage: 1.2 x rated continuous
 1.5 x rated for 10 seconds
 Current: 10 x rated for 10 seconds

Decimal point:

Settable to any digit position

Operation temperature:

0~60 °C

Operation relative humidity:

20~95 %R.H.

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 $\pm 10\%$, 50/60Hz

Power consumption:

DC 3W, AC 4.5VA

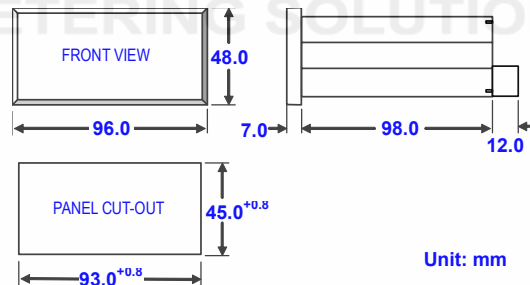
Dielectric Strength:

AC 2.0 KV for 1 min. (Between Power / Input)
 AC 3.0 KV for 1 min. (Between Terminal / Case)

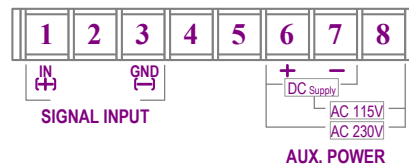
Weight:

370g

DIMENSIONS



CONNECTION DIAGRAM



ORDERING INFORMATION

CSM-321 Input Type N Input Range Aux. Power

CODE	INPUT TYPE
D	DC
A	AC
TR	TRMS
F	Frequency

CODE	INPUT RANGE	Current		Voltage		Frequency	
		CODE	INPUT RANGE	CODE	INPUT RANGE	CODE	INPUT RANGE
A	199.9 uA	1	199.9 mV	1	199.9 Hz		
B	1.999 mA	2	1.999 V	2	1999 Hz		
C	19.99 mA	3	19.99 V	F	Specify Hz		
D	199.9 mA	4	199.9 V	1	AC 2~200V		
E	1.999 A	5	300 V	2	AC 30~600 V		
F	5.00 A	6	600 V	3	Pulse 5 V		
G	10.00A	V	Specify (V i/p)	4	Pulse 12 V		
I	Specify (A i/p)			5	Pulse 24 V		
				O	Specify		

CODE	AUX. POWER
A	AC 115/230 V
DO	Specify DC
AO	Specify AC