

# 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



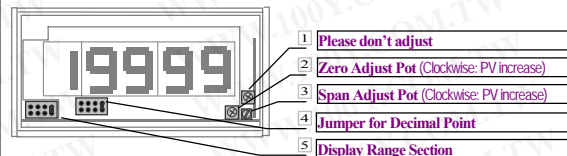
## MEASUREMENT

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

## SPECIFICATION

- Measuring: DC:  $\pm 0.04\%$  F.S.  $\pm 1$  digit  
AC:  $\pm 0.1\%$  F.S.  $\pm 1$  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
- Decimal point: Settable to any digit position
- Operation temperature: 0-60 °C
- Operation relative humidity: 20-95 %R.H.
- Temperature coefficient:  $\leq 100$  PPM/°C (0-50°C)  
 $\leq 50$  PPM/°C (23±3°C)
- Storage temperature: -10-70°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

## ADJUSTMENT



### 5. Display Range Section:

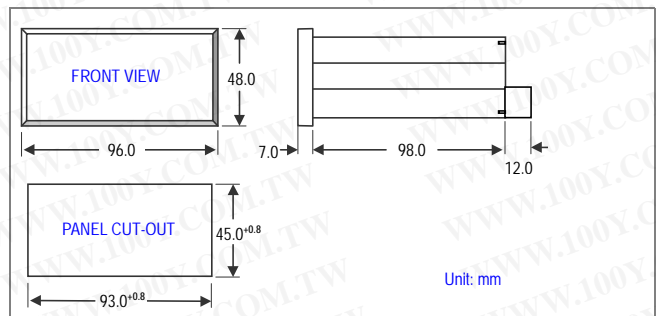
Section	Jumper	Display Range	Section	Jumper	Display Range
1	---	19999-17000	5	---	9000- 6250
2	---	17250-13000	6	---	6250- 4250
3	---	13000- 9000	7	---	4250- 3000
4	---	12000- 8250	8	---	3000- 2000

### 4. Decimal Point Jumper:

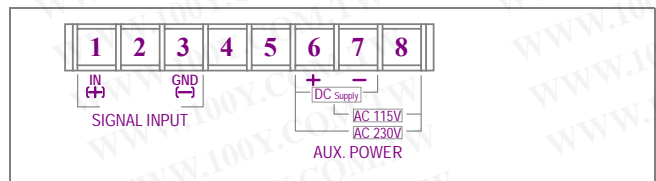


The meter is calibrated at the factory per order. If your meter will need to be re-calibrated. Please refer to page A- I .

## DIMENSIONS



## CONNECTION DIAGRAM



## ORDER INFORMATION

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

CODE	INPUT TYPE	CODE	INPUT RANGE	CODE	INPUT RANGE	CODE	INPUT RANGE	CODE	AUX. POWER
D	DC	A	199.99 uA	1	199.99mV	1	199.99 Hz	A	AC 115/230 V
A	AC	B	1.9999 mA	2	1.9999 V	2	1999.9 Hz	D12	DC 12 V
TR	TRMS	C	19.999 mA	3	19.999 V	O	Specify	D24	DC 24 V
F	Frequency	D	199.99 mA	4	199.99 V	1	AC 2-200 V	D48	DC 48 V
		E	1.9999 A	5	300.0 V	2	AC 30-600 V	O	Specify
		F	5.000 A	6	600.0 V	3	Pulse 5 V		
		G	10.000A	V	Specify (V i/p)	4	Pulse 12 V		
		I	Specify (A i/p)			5	Pulse 24 V		
						O	Specify		

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