

4 1/2 DIGITAL PROCESS METER

CSR-421

FEATURE

- Measuring process signal mA, Vdc, Potentiometer, Pulse/u.
- Accuracy: $\pm 0.04\%$
- 4 1/2 Digital display: 19999
- Easy-to-wire, screw type terminal
- Outside dimensions is 1/8 DIN standard (96x48 mm)
- High stability & low cost



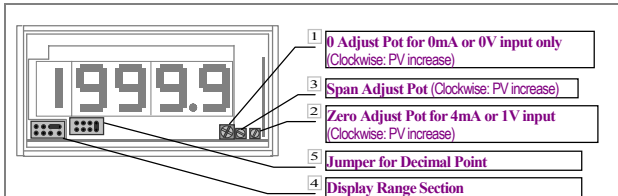
www.transducersandmeters.com

MEASUREMENT

Measuring Range	Resolution	Input Impedance	
Current	0 ~ 1 mA	0.0001 mA	≤ 200 ohm
	0 ~ 10 mA	0.001 mA	≤ 20 ohm
	0 ~ 20 mA	0.01 mA	≤ 10 ohm
	4 ~ 20 mA	0.01 mA	≤ 10 ohm
Voltage	0 ~ 50 mV	0.01 mV	$\geq 5M$ ohm
	0 ~ 1 V	0.0001 V	$\geq 1M$ ohm
	0 ~ 5 V	0.001 V	$\geq 1M$ ohm
	0 ~ 10V	0.001 V	$\geq 1M$ ohm
Potentiometer	50.00 ~ 100.00K ohm		$\geq 1M$ ohm
Pulse/u.	3.000 ~ 30.00K Hz		$\geq 1M$ ohm

- Measuring accuracy: $\pm 0.04\%$ F.S. ± 1 digit
- Span adjustment: $\leq 10\%$ of R.O.
- Zero adjustment: $\leq 2\%$ of R.O.
- Sampling time: About 3 cycles/sec.
- Polarity indication: 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 continuous
- Decimal point: Settable to any position by front jumper
- 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 $\pm 10\%$, 50/60 Hz
Option: DC 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
(Between Power / Input)
AC 3.0KV for 1 min
(Between Terminal / Case)
- Weight: 350g

ADJUSTMENT



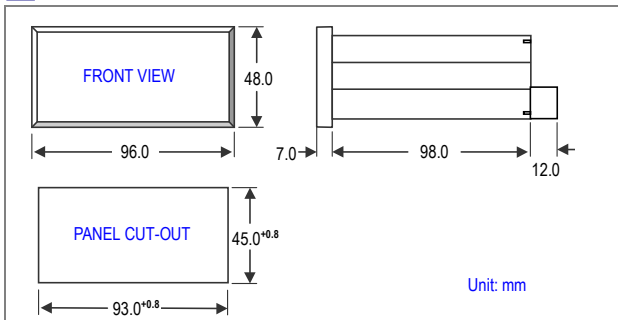
4 Display Range Section:

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

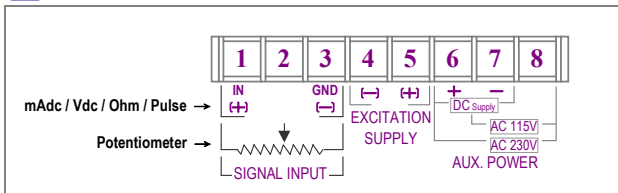
3 Decimal Point Jumper:



DIMENSIONS



CONNECTION DIAGRAM



ORDER INFORMATION

CSR-421 Input Range — Excitation Supply — Aux. Power

Current		Voltage		Potentiometer or Ohm		Strain Gauge		Frequency		Aux. Power	
CODE	INPUT RANGE	CODE	INPUT RANGE	CODE	INPUT RANGE	CODE	INPUT RANGE	CODE	INPUT RANGE	CODE	EXCIT. SUPPLY
A1	0 ~ 1 mA	V1	0 ~ 50 mV	RP1	50 ~ 10K ohm	S1	1.0 mV / V	H1	1 P / u.	N	None
A2	0 ~ 10 mA	V2	0 ~ 60 mV	RP2	10K ~ 100K ohm	S2	1.3 mV / V	H2	10 P / u.	E1	DC 10 V
A3	0 ~ 20 mA	V3	0 ~ 1 V	R1	199.9 ohm	S3	1.5 mV / V	H3	60 P / u.	E2	DC 12 V
A4	4 ~ 20 mA	V4	0 ~ 5 V	R2	1999 ohm	S4	2.0 mV / V	H4	100 P / u.	E3	DC 24 V
O	Specify	V5	0 ~ 10 V	R3	10.00K ohm	S5	2.5 mV / V	H5	500 P / u.	O	Specify
		V6	1 ~ 5 V	O	Specify	S6	3.0 mV / V	H6	1024 P / u.		
		O	Specify			O	Specify	O	Specify	D12	DC 12 V
										D24	DC 24 V
										D48	DC 48 V
										O	Specify

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