

Description

CSN Series is a simple type of economic Panel Meter, and its large LED display with 20.0mm and anti-jamming design, quality, reliable, easy to install.

Full range can be specified DC voltage / current, thermal resistance, potentiometer, such as the general measurement requirements.



Model	Measurement / input signal	Excitation output
CSN-PR	DC :0~20mA / 4~20mA, DV:0~5V / 1~5V / 0~10V	Option
CSN-PM	Potential-meter 0~2.0kΩ(3 wire), 2.0kΩ~100.0kΩ(3 wire)	NA
CSN-T	Rtd temperature PT100Ω, PT1000Ω	NA

Features

- Users can adjust the zero point. coarse adjustment and fine adjustment 3 potentiometer, directly in the field to adjust the displayed value
- 20.0mm large highlight LED display; design of Straight into the terminal, no access to undesirable questions; Installation depth of only 73mm

Technical Specification

Input

Input signal and Range		Resolution	Display accurac	Input impedance
DC current CSN-PR	0 ~ 10 mA	By Order	$\leq \pm 0.1\%$ of FS ± 1 count	250Ω
	0 ~ 20 mA	By Order		250Ω
	4 ~ 20 mA	By Order		250Ω
DC voltage CSN-PR	0 ~ 5 V	By Order	$\leq \pm 0.1\%$ of FS ± 1 count	$\geq 1M\Omega$
	0 ~ 1 0V(CODE:V5M)	By Order		$\geq 1M\Omega$
	0 ~ 1 0V(CODE:V5)	By Order		$\geq 100K\Omega$
	1 ~ 5 V	By Order		$\geq 1M\Omega$
Potentiometer CSN-PM	0~2.0K Ω	By Order	$\leq \pm 0.1\%$ of FS ± 1 count	$\geq 1M\Omega$
	0~100k Ω	By Order		$\geq 1M\Omega$
Temp CSN-T	Rtd temperature	According to Sensor type	$\leq \pm 0.1\%$ of FS ± 1 count	$\geq 1M\Omega$

Calibration: Potentiometer
 Zero adjustment: $\leq 5\%$ F.S (Clockwise to increase)
 Span adjustment: Coarse 0~100% (Clockwise to increase)
 Trimming $\leq 5\%$ F.S (Clockwise to increase)
 Sampling rate: 1 cycle/sec

Display & Functions

LED: Numeric: 3 1/2 digits,
 0.8" (20.0mm) high-brightness LED
 Display range: -1999~1999
 Decimal point: Short films from 0 / 0.0 / 0.00 / 0.000
 Over range Indication: "I" : when input is over range Hi
 Under range indication: "- I" : when input is over range Lo
 Input overload capacity:
 Voltage: 1.2 rated continuous
 1.5 rated input under 10 seconds
 Current: 10 rated input under 10 seconds

Power

Power supply: AC 115 / 230V, 50/60Hz
 DC $24V \pm 10\%$
 Excitation power: CSN-PR: DC24V, 30mA
 Power consumption: AC:2.5VA

Electrical Safety

Dielectric strength: AC 2.0 KV for 1 min,
 Between Power / Input / Output / Case
 Insulation resistance: $\geq 100M\Omega @ 500Vdc$,
 Between Power / Input / Output / Case

Environmental

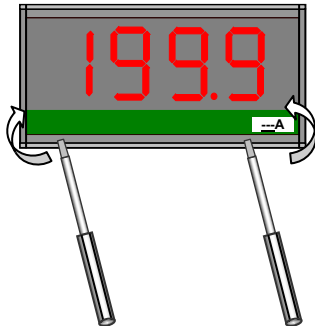
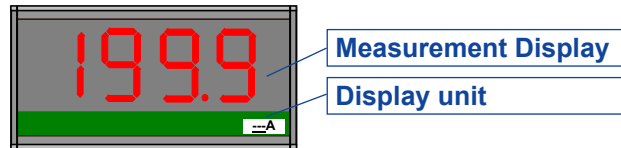
Operating temp.: 0~60 °C
 Operating humidity: 20~95 %RH, Non-condensing
 Temp. coefficient: ≤ 100 PPM/°C (0~50°C)
 Storage temp.: -10~70 °C
 Enclosure: Front panel: IEC 529 (IP52); Housing: IP20
 Vibration test: 1~800Hz, 3.175g2/Hz

Mechanical

Dimensions: 96mm(W) x 48mm(H) x 80mm(D)
 Panel cutout: 93mm(W) x 45mm(H)
 Case material: ABS fire-resistance (UL 94V-0)
 Mounting: Panel flush mounting
 Terminal block: Plastic NYLON 66 (UL 94V-0);
 22~14AWG / 0.5~2.0mm²
 Screw Torque Value : M3.5 / 12kgf.cm(Max)
 Weight: 310g

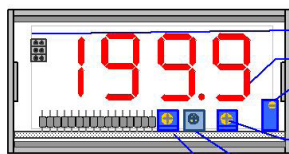
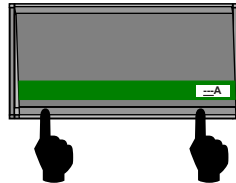


Front Panel & Adjustment



Open and put back the front panel

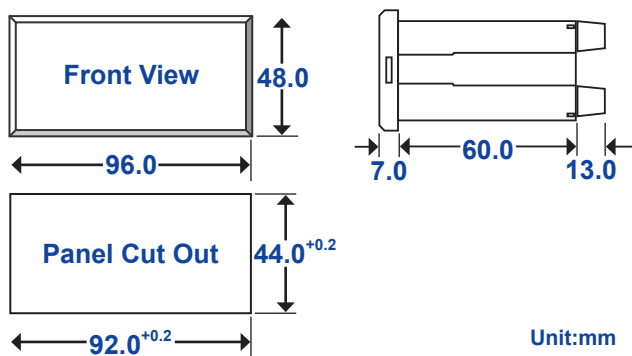
1. Put the slotted screwdriver in the gap under the panel and pry open
2. Please keep the panel carefully
3. When put the panel back, align the panel upper edge first then press it



- Short Jumper for D.P.
- 7-Segment Display LED
- F.S. Fine-tuning VR(Clockwise to increase: PV Increase)
- F.S. Coarse VR(Clockwise to increase: PV Increase)
- AC Zero Adjustment VR(Clockwise to increase: PV Increase: PV Increase)
- DC Zero Adjustment VR(Clockwise to increase: PV Increase: PV Increase)

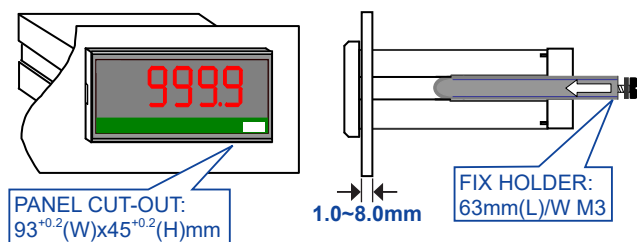


Dimensions

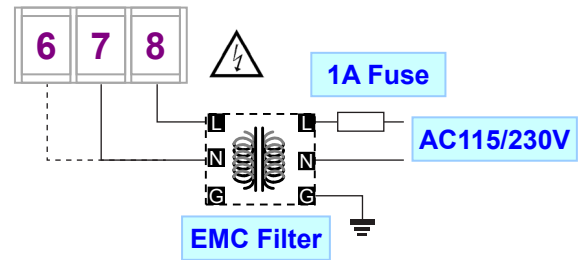


Installation

The meter should be installed in a location that does not exceed the maximum operating temperature and provides good air circulation.

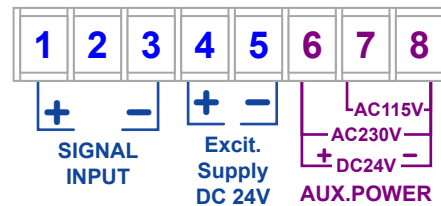


Power Connection

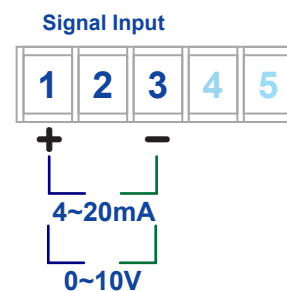


Input Signal

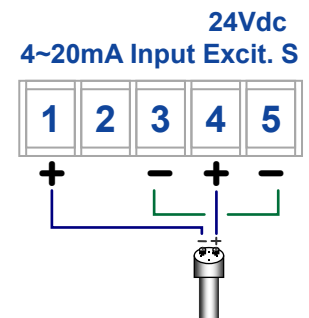
CSN-PM



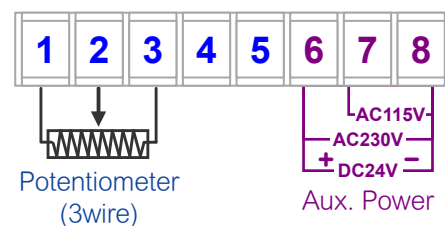
Signal Input



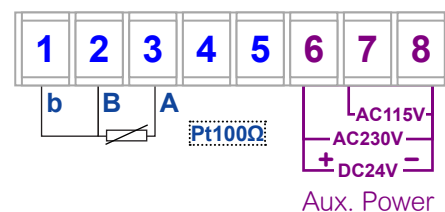
2 wire sensor Input Connection



CSN-PM



CSN-T



Ordering Information

