

CSMS-321 3 1/2 DIGITAL PANEL METER- 1/32 DIN

■ FEATURE

- Measuring DCA, DCV, ACA, ACV, Temperature
- Accuracy: DC : $\pm 0.1\%$; AC : $\pm 0.25\%$;
- Pt100 : $\pm 0.2\%$; Type K, J : $\pm 1\%$
- 3 1/2 Digital display: 1999
- Easy-to-wire, screw type terminal
- Outside dimensions is 1/32 DIN standard (48x24mm)
- High stability & low cost



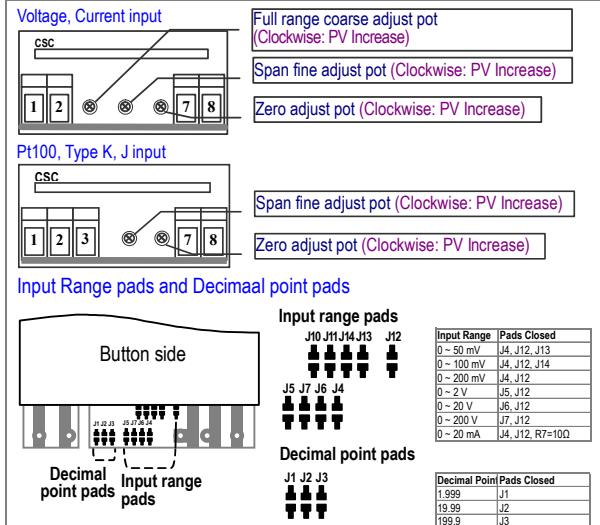
CSMS-321

■ MEASUREMENT

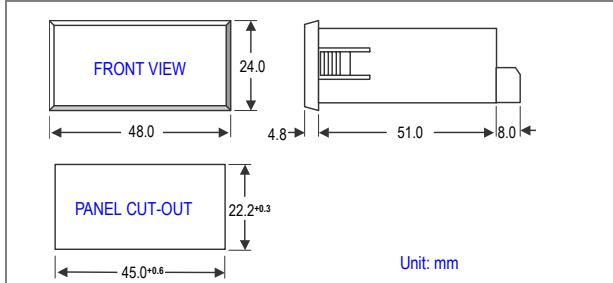
| Measuring Range | | Resolution | Input Impedance | Variable to be measured |
|-----------------|--------------------------|-------------|-----------------|-------------------------|
| Current | 199.9 μ A | 0.1 μ A | $\leq 1K$ ohm | DC AC |
| | 1.999 mA | 0.001 mA | ≤ 100 ohm | |
| | 19.99 mA | 0.01 mA | ≤ 10 ohm | |
| | 199.9 mA | 0.1 mA | ≤ 1 ohm | |
| | 1.999 A | 0.001 A | ≤ 0.05 ohm | |
| Voltage | 199.9 mV | 0.1 mV | $\geq 5M$ ohm | °C |
| | 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 | |
| | 250 V | 1 V | $\geq 1M$ ohm | |
| Temp. | T/C: Type K 0~1200°C | | $\geq 1M$ ohm | °C |
| | T/C: Type J 0~750°C | | $\geq 1M$ ohm | |
| | RTD: Pt100 -40.0~199.9°C | | $\geq 1M$ ohm | |
| | RTD: Pt100 0~600°C | | $\geq 1M$ ohm | |

- Measuring accuracy:
 DC: $\pm 0.1\%$ F.S. ± 1 digit
 AC: $\pm 0.25\%$ F.S. ± 1 digit
 T/C: $\pm 1\%$ F.S. ± 1 digit
 Pt100: $\pm 0.2\%$ F.S. ± 1 digit
- Measuring range:
 Selectable soldering pads on pcb of rear side
- Decimal point:
 Selectable soldering pads on pcb of rear side
- Span adjustment:
 Rough adjustment 10~100% of FS
 Fine adjustment $\leq 10\%$ of F.S.
- Zero adjustment:
 $\leq 5\%$ of F.S.
- Sampling time:
 About 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: 1.2 x rated continuous
- 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:
 DC 5V, 12V, 24V $\pm 10\%$ (Isolated)
- Power consumption:
 700 mW
- Dielectric Strength:
 AC 500V for 1 min (Between Power / Input)
 AC 2.0KV for 1 min (Between Terminal / Case)
- Weight:
 350g

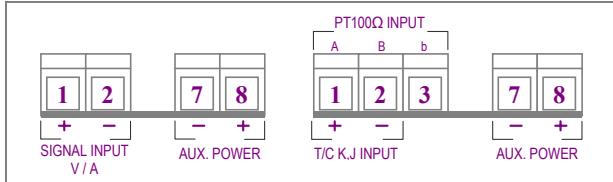
■ ADJUSTMENT



■ DIMENSIONS



■ CONNECTION DIAGRAM



■ ORDERING INFORMATION

CSMS-321 Input Type — Input Range — Aux. Power

| CODE | INPUT TYPE | CODE | INPUT RANGE | CODE | INPUT RANGE | CODE | INPUT RANGE | CODE | AUX. POWER |
|------|-------------|------|-----------------|------|-----------------|------|---------------------|------|---------------|
| D | DC | A | 199.9 μ A | 1 | 0 ~ 50 mV | K | K 0~1200°C | | D5 DC 5V |
| A | AC | B | 1.999 mA | 2 | 199.9 mV | J | J 0 ~ 750°C | | D12 DC 12V |
| T | Temperature | C | 19.99 mA | 3 | 1.999 V | P1 | Pt100 -40.0~199.9°C | | D24 DC 24V |
| | | D | 199.9 mA | 4 | 19.99 V | P2 | Pt100 0~600°C | | DO Specify DC |
| | | E | 1.999 A | 5 | 199.9 V | O | Specify | | |
| | | F | 4 ~ 20 mA | 6 | 250 V | | | | |
| | | G | 0 ~ 1 mA | 7 | 1 ~ 5 V | | | | |
| | | H | 0 ~ 10 mA | 8 | 0 ~ 10 V | | | | |
| | | I | 0 ~ 20 mA | 9 | 0 ~ 5 V | | | | |
| | | AO | Specify (A i/p) | VO | Specify (V i/p) | | | | |