

Transmitter for transformer method torque transducer CSA-561C

2023/03/22

Features



- Special transmitter for transformer method torque transducer TMNR(-ME) series.
- Input and output terminal are isolated.
- The optional equivalent strain is set with the 4-digits digital switch.
- 4 1/2 digits digital monitor.

Specification

Specification name	Specification contents
Bridge power supply	AC2.0 Vrms sine wave 5 kHz±0.1 kHz
Applicable transducer	Strain gage based torque transducer
Input range	0.5 mV/V ~ 3 mV/V (1 mV/V = 2 000 μst)
Output	±10 V output (±0.5 mV/V input, at bridge power supply AC2.0 Vrms)
Load resistance	Resistance load 2kΩ or more, Output capacitance load 0.1 uF or less
Sensitivity adjustable range	±2.5 mV/V Coarse adjustment Automatic balance Fine adjustment Zero adjustment trimmer Resistance section Approx.1 % (±2.5 mV/V) Capacitance section Up to 2 000 pF is possible Automatic balancing time Approx.1 s, Accuracy ±0.2 %F.S.,

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	Back-up time : 24 h or more
Non-linearity (Display and voltage output)	0.05 %F.S.
Temperature efficient	Zero point $\pm 0.1 \mu\text{V}/^\circ\text{C}$ (Input conversion) Sensitivity within $\pm 0.05 \text{ %F.S.}/^\circ\text{C}$
CALIB	Set by digital switch Setting range : $0 \sim \pm 9\,999 \mu\text{st.}$, Accuracy : $\pm 0.5 \%$
Frequency response range	DC $\sim 2 \text{ kHz}$ (Filter: W/B) (Changeable to 1 Hz, 10 Hz, 100 Hz, 300 Hz, 1 kHz or W/B)
Display section	Output voltage display $0 \sim \pm 10.000$ Digital display (Green LED) Sampling rate: Approx. 4 times/s
ERROR function	($+10 \text{ V}$ or more or -10 V or less), the display flashes 0.000 or -0.000 on and off and also ERROR will be shown. (Photocoupler output)
Remote function	Automatic balance \pm CALIB
LOCK function	Automatic balance, Prohibit the operation of \pm CALIB (Including \pm CALIB of automatic balance for remote function)
Operating temp. / humidity range	Temperature $-10 \text{ }^\circ\text{C} \sim 50 \text{ }^\circ\text{C}$ Humidity 85 %RH or less (Non condensing)
Power supply	100 VAC $\pm 10 \text{ VAC}$ 50/60 Hz
Power consumption	Approx. 10 VA (at 100 VAC)
Outline dimensions (WxHxD)	42 mm x 176 mm x 284.4mm (Excludes protruding parts.)
Weight	Approx. 1.5 kg

Options

Current output