

Static Strain Digital Indicator PSD-704

2023/10/05

Features



- Indicator for strain gage or strain gage applied transducer
- Check strain gage based transducers in mV/V.
- Measure I/O resistance of strain gage based transducers. Insulation resistance between main body and each cable wire is also available.
- Applied RS-232C interface as a standard.

Specification

Specification name	Specification contents
Bridge power supply	2 VDC±0.02 VDC Within 35 mA
Target for measurement	Strain measurement, Measurement on output of strain gage applied transducer, Measurement on resistance value.
Measuring method	Deflection method (under measuring on strain or output of strain gage application)
Temperature efficient	Zero point ±0.2 μst/°C, Sensitivity ±0.01 %F.S./°C (After 15 min. of warming up time with the range of x1)
Efficient due to time	Zero point ±0.2 μst/8h, Sensitivity ±0.01 %F.S./8 h (Temperature variation within ±2 °C with the range of x1)
A/D sampling	4 times/s
Display	Dot matrix type liquid crystal display (with back light LED type)
Specification for strain measurement	
Measuring method	1 gage 2 wire method Strain Gage : 120 Ω, 240 Ω, 350 Ω 1 gage 3 wire method Strain Gage : 120 Ω, 240 Ω, 350 Ω 2 gage method Strain Gage : 60 Ω to 1 000 Ω 4 gage method (Strain gage applied transducer) Strain Gage : 60 Ω to 1 000 Ω

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Measuring range	x1 range : $\pm 40\,000\ \mu\text{st}$ 4GH range : $\pm 3.500\,0\ \text{mV/V}$ ($\pm 7\,000.0\ \mu\text{st}$) (4 gage method, Only for strain gage applied transducer)
Resolution	x1range : $1\ \mu\text{st}$ 4GHrange : $0.000\,1\ \text{mV/V}$ ($0.1\ \mu\text{st}$) (4 gage method, Only for strain gage applied transducer)
Accuracy	x1range : $\pm 0.08\ \%\text{F.S.} \pm 1\ \text{digit}$ 4GHrange : $\pm 0.08\ \%\text{F.S.} \pm 2\ \text{digit}$ (4 gage method, Only for strain gage applied transducer)
Operating temp./humidity range	Temperature $0\ ^\circ\text{C}$ to $50\ ^\circ\text{C}$, Humidity $85\ \%\text{RH}$ or less (Non condensing)
Power supply voltage	90 VAC to 264 VAC (in the usage of AC adapter) 50/60 Hz or battery drive by Ni-Cd battery.
Power consumption	Approx. 8 VA (When AC adapter is used.)
Outline dimensions(WxHxD)	210 mm x 148.5 mm x 40 mm (excludes protruding parts)
Weight	Approx. 1.7 kg

Options

Hard case PSD704-093