

Digital indicator TSD - 591 for tie bar measurement system

2023/10/05

Features



- Applicable to the balance adjustment of tightening force
- View four tie-bar's. (with voltage output)
- Actual load display via tie-bar gage's element.
(Diameter, Young ratio, etc.)
- 4 hour internal battery.
- One touch automatic zero.

Specification

Specification name	Specification contents
Bridge power supply	2 VDC±0.02 VDC within 35 mA
Applicable transducer	Tie-bar gage (350 Ω type)
Measuring method	Displacement method
Temperature efficient	Zero ±0.2 μst/°C, Sensitivity ±0.01 %F.S./°C (After 15 min. of warming up time)
Efficient due to time	Zero ±0.2 μst/8 h, Sensitivity ±0.01 %F.S./8 h (Temperature variation width within ±2 °C)
A/D sampling	16 times/s
Display section	Dot matrix type liquidcrystal display (With back light LED type)
Function on setting program	No. of files 20 filesat maximum

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Setting contents 1. Young rate, 2. Diameter of tie-bar(round bar) 3. Decimal point position, 4. UNIT(KN, MN)	
Tie bar analog output	Tie-bar output : 4, Tie-bar average output : 1 (BNC connector)
Output	0 V ~ ±2 V (Loadresistance 10 kΩ or less)
Accuracy	0.5 %F.S. (Resolution 1/2 000)
Measuring target	Tie-bar gage (350 Ω type)
Measurement set quantity	4 sets at maximum(one pair)
Measuring range	±15 000 μst
Resolution	1 μst
Accuracy	±0.1 %F.S.±1 digit
Operating temp./humidity range	Temperature 0 °C~ 50 °C, Humidity 85 %RH or less (Non condensing)
Power supply voltage	90 VAC to 264 VAC (when using AC adapter), 50/60 Hz
Power consumption	Approx. 8 VA
Battery drive time	Approx. 4 hours (when connecting 4 sets of tie bar gage)
Outline dimensions (WxHxD)	220 mm x 160 mm x 49 mm (excludes protruding parts)
Weight	Approx. 1.8 kg

Table of P/N

Parts No.	Outline dimension (WxHxD) [mm]	Weight(Approx.) [kg]
TSD-591	220 x 160 x 49 (excludes protruding parts)	1.8

Accessories

- Instruction manual 1 piece
- AC adapter 1 piece
(PW-024A-1Y160KU: Power Win Technology)
- Midget fuse(2 A) 1 piece