



"DS-2000" / Digital Transducer Indicator



Features

- Low-cost, and standard specifications include top and bottom setting and holding functions.
- Can match with all sorts of strain gage sensors through excitation voltage switching.
- Indication with both polarities (± 19999).
- Check function of the sensor initial balance ($\pm 6000 \times 10^{-6}$ in strain).
- Capable of connecting in 4 parallel units of the 350 Ω Series load cells.
- High accuracy in non-linearity of 0.02%FS ± 1 digit.
- Calibration methods for the strain gage sensor: Equivalent Input, Real Input, and TEDS.
- Addition of various optional features is possible.

Related products : [DS-6200](#)

Specifications

Item	Description
Sensor applied voltage	DC10V, 2.5V $\pm 10\%$ (30mA when using DC power supply option)
Sensor input range	-3.2 ~ +3.2 mV/V
Equivalent input and TEDS	Calibration range: 0.3 ~ 3.2mV/V Calibration accuracy: within 0.1%FS at setting range more than 0.5mV/V.
Zero Adj. range	
Minimum input sensitivity	

Accuracy	Non-linearity: within 0.01%FS at input 1mV/V ZHRGLIWZLWKLQ °C RTI Gain drift: within 0.005%/°C
A/D converter	Speed: 4000 times/sec
Analog filter	3Hz(-6db/oct)、 10,30,100,300,1000Hz(-12db/oct)
TEDS fubction	IEEE1451.4 Class2 Mix Mode Interface
Peak hold function (Analog and Digital Methods)	Response speed: Approx. 1kHz (wave width 2ms: input 3mV/V ,analog filter: 3kHz) Accuracy: within 0.2%FS 5HVHWWLPHV
Display	Character hieght: Display range: ±99999 Decimal point: selectable Display rate: 4/6/10/20 times/sec, selectable
Display items	Status(LED): HI,OK,LOW,PEAK,HOLD,CALIBRATION LOCK,SETTING LOCK
Setup items	CAL setup: Zero CAL/Span CAL (Equivalent Input CAL, Real Load CAL, TEDS CAL) Function setup: High Limit, Low Limit, High/Low Limit Comp. Mode, Hysteresis, Zero Vicinity, Digital Filter, Analog Filter, Motion Detect, Zero Tracking, Digital Zero, Zero Offset, Hold Mode, Key Lock, Minimum Scale, Display rate, Excitation Voltage, B.C.D. Refresh Rate, RS-232C, D/A Converter
External signal	High/Low Limit Relay Contact Output, Analog Voltage Output, Hold Signal Input, Digital Zero Signal Input

Power supply	AC adapter ; DC12V9W (AC100V12W) DC ; 12~24V
Ambient condition	Operation Temp.: -10 ~ +40°C Storage Temp.: -20 ~ +60°C Humidity: 85% RH or lower (no condensation)
External dimension	96 (W) x 53 (H) x 131 (D) mm(not including protruding parts) Panel cut dimension
Weight	Approx. 300g
Options	
Accessories	Operation Manual *1 Ac adapter *1 Ferrite Core *1 (when an order for B.C.D. option or D/A option is placed)

■ TEDS

By connecting a sensor complying with IEEE1451.4 (TEDS: Transducer Electronic Data Sheet), DS-7000 can retrieve the rated output values stored in the sensor, and applies them to the indicator's calibration process. It also can save the self-calibrated values into the TEDS sensor.