

WDS-180A

Small-Sized Digital Indicator

● Direct Reading of Physical Quantities



The WDS-180A is a handy digital indicator for strain/stress measurement by connecting to a strain gage or for measurement of a physical quantity such as pressure or load by connecting to a strain gage transducer.

Features

- Connection to TEDS-installed transducer enables automatic setting of the sensitivity.
- Suitable for simple measurement or checking of physical quantities in combination with a pressure, load or displacement transducer
- Measured values can be indicated in strain quantity or mV/V.
- Auto power OFF function provided against negligence in turning the power off
- Physical quantities can easily be measured through sensitivity-registered calibration or actual load calibration.
- Operation on 2 pieces of AA size dry cells
- Continuous 24-hours operation with manganese cells
- Weighs only 150 g.

Specifications

Applicable Transducers: Strain gage transducers
Applicable Bridge Resistance: 60 to 1000 Ω
Bridge Excitation: 1 VDC $\pm 3\%$
Input Range: $\pm 10000 \mu\text{m/m}$ ($\pm 5 \text{ mV/V}$)
(Zero adjustment range included)
Digital Zero: Can be set at any point in the input range
Calibration:
By inputting the value
By applying an actual load
TEDS Function:
Calibration by reading TEDS data
Calibration by TEDS + Registered profile data
Indication Range: -9999 to 9999 (minus is indicated by the 4th digit flickering at the center)
Sampling Rate: Approx. 3 times/sec.
Nonlinearity: $\pm 0.05\%$ FS
Strain Mode: Input value is indicated in 10 $\mu\text{m/m}$ or mV/V
Measure Mode: Input value is multiplied by calibration coefficient to be indicated in physical quantities.
Minimum Scale: Swichable to 1, 2 or 5 steps (in measure mode)
Peak Hold: Maximum value during the measurement
Auto Power OFF Function: Can be set in a range of 1 to 99 minutes or OFF.
Low Battery Indication: All digits of LED indicator flicker.
Operating Temperature/Humidity Range: -5 to 40°C, 20 to 85% RH (noncondensing)
Power Supply: AA size dry cell x 2
Continuous Operation: Possible for approx. 24 hours on manganese dry cells (with LED lamps OFF)
Dimensions: 66.5(W) x 92(H) x 28(D) mm (excluding protrusions)
Weight: Approx. 150 g (with manganese dry cells built in)

Standard Accessories

Instruction Manual
AA size dry cell x 2

Dimensions

