

WDS-180A/185AS1

Compact Digital Indicators ● Enables direct reading for physical value



WDS-180A

WDS-185AS1

Suitable for simple measurement and checking of a load, pressure or displacement transducer.

- WDS-180A provides TEDS reading circuit for easy and error-free setup.
- Indicates measured values in $\mu\text{m}/\text{m}$ or mV/V .
- Operates on 2 pieces of AA size dry cell which is available anywhere.
- Measure mode enables direct reading of physical quantities in proper engineering unit.
- Actual load calibration or sensitivity registration calibration is possible.
- Compact and lightweight (66.5mm×92.0mm×28.0mm, approx. 180g)

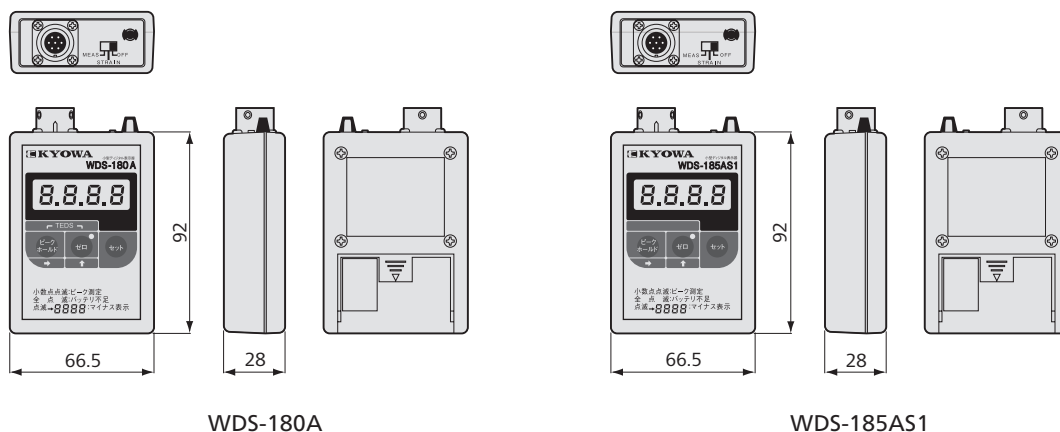
Two models are available for constant voltage or constant current type.
Enable reading in N, Pa or mm

Specifications

model:	WDS-180A(constant voltage type) WDS-185AS1(constant current type)
Number of Measuring Channels:	1
Applicable Transducers:	Strain-gage transducers(full-bridge)
Applicable Bridge Resistance:	WDS-180A: 60 to 1000 Ω WDS-185AS1: 350 Ω
Bridge Excitation:	WDS-180A: 1V(constant voltage) WDS-185AS1: 2mA(constant current)
Measuring Range:	$\pm 5\text{mV}/\text{V}$ ($\pm 10000\mu\text{m}/\text{m}$), including zero adjustment range
Digital Zero Compensation:	Possible in the measuring range
Sampling Rate:	Approx. 3 times per second
Calibration Modes:	Actual load calibration Sensitivity registration calibration In addition, the WDS-180A enables calibration by reading TEDS information or by reading TEDS and registered profile data.
Indication:	7-segment LCD Character height: 8.9 mm Decimal point: Can be set at any desired place (in measure mode only) (Once set, the decimal point is fixed and not floated.) Indication range: -9999 to 9999 (minus is indicated by flickering the center segment of thousands' place digit.)
Indication Accuracy:	$\pm(0.05\% \text{rdg.} + 5)\mu\text{m}/\text{m}$
Indication Modes:	Strain mode: Switchable between $\mu\text{m}/\text{m}$ and mV/V measure mode: Proper engineering unit through multiplication by calibration coefficient
Minimum Scale Value:	Switchable to 1, 2 or 5 (in measure mode)
Peak Hold:	Holds a maximum value during measurement.
Auto Power OFF:	Can be set in a range of 1 to 99 minutes or none.
Low Battery Indication:	All digits of LED indicator flicker (battery voltage 2.3 to 1.9V).
Operating Temperature/Humidity Range:	- 5 to 40°C, 20 to 85%RH(noncondensing)
Storage Temperature Range:	- 10 to 60°C
Power Supply:	AA size dry cell×2
Continuous Operation:	24 hours or longer (with manganese dry cells)
Dimensions:	66.5(W)×92.0(H)×28.0(D)mm (excluding protrusions)
Weight:	Approx. 180g(with manganese dry cells built in)

Standard Accessories Hook to attach a strap, AA battery×2, label for measurement unit

Dimensions



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INSTRUMENTATION AMPLIFIERS

Transducers to recommend

Load Cells



Pressure Transducers



Displacement Transducers

