



Compact Digital Indicators

Enable reading in N, Pa or mm



WDS-180A/185AS1

- ◆ Two models are available for constant voltage or constant current type.
- ◆ Suitable for simple measurement of load, pressure or displacement in combination with a transducer.
- Indicates measured values in μm/m or mV/V.
- ♦ Measure mode enables direct reading of physical quantities in proper engineering unit.
- Actual load calibration or sensitivity registration calibration is possible.
- ◆ WDS-180A provides TEDS reading circuit for easy and error-free setup.
- ◆ Compact and lightweight (66.5 mm x 92.0 mm x 28.0 mm, approx. 180 g)
- ◆ Operates on 2 pieces of AA size dry cell which is available anywhere.

Specifications

Conditioner Section

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: 1 V (constant voltage)
WDS-185AS1: 2 mA (constant current)
Measuring Range: ±5 mV/V (±10000 μm/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. (WDS-185AS1 is not provided with TEDS reading circuit.)

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: ±(0.05% rdg. + 5) μm/m

Indication Modes:

Strain mode: Switchable between µm/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 1.9 V).

General

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 x 2

Continuous Operation: 24 hours or longer (with manganese dry cells)
Note: Approx. 100 hours with alkaline dry cells for measurement of
120 \Omega transducers at a room temperature of 25°C with LED

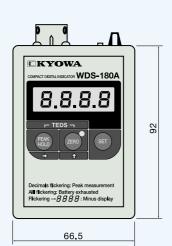
Dimensions: $66.5 \text{ (W)} \times 92.0 \text{ (H)} \times 28.0 \text{ (D)}$ mm (excluding protrusions) Weight: Approx. 180 g (with manganese dry cells built in)

Standard Accessory: Hook to attach a strap

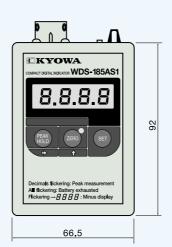
Option:

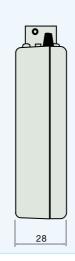
Voltage monitor output ±4.0 V FS

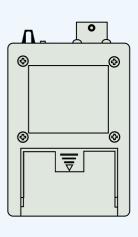
Dimensions















JQA-0821 JQA-EM4824 Specifications are subject to change without notice for improvement.



Be sure to observe the safety precautions given in the instruction manual, in order to ensure correct and safe operation.

Reliability through integration



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Drietal in Jacon 2000

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