

WDS-190AS1/191AS1

Compact Digital Indicator

● Enables direct reading for physical value



WDS-190AS1

WDS-191AS1

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

- With backlight, to be used even in dark places
- Display data in 5 digits, units, status, and low power are displayed
- Measure 2.5 Hz phenomena possible at 50 Hz sampling speed
- WDS-191AS1 records data in CSV format
- Powered by 2 AA dry batteries
- Lightweight

The Compact Digital Indicators display and record the output data of strain-gage transducers, such as load cells, pressure transducers, displacement transducers, and torque transducers etc.

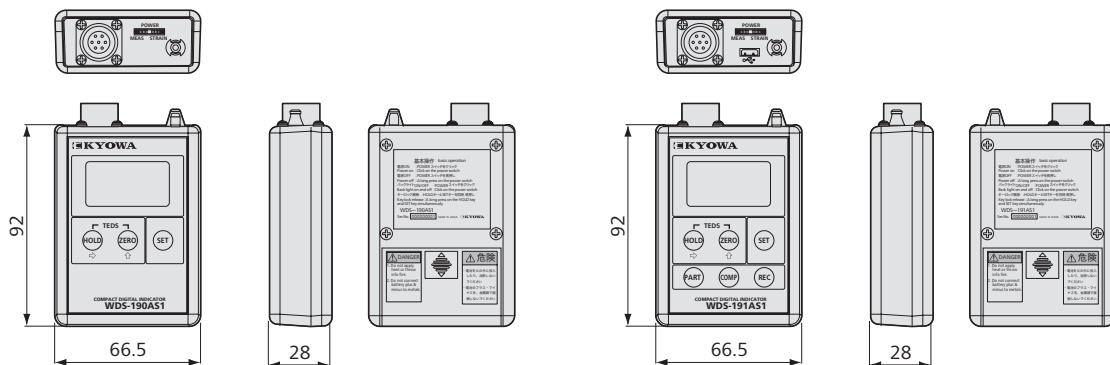
Specifications

Models	WDS-190AS1 WDS-191AS1 (With comparison and record functions)
Channels	1
Applicable Transducers	Strain-gage transducers
Applicable Bridge Resistance	60 to 1000 Ω
Bridge Excitation	2 V DC
Measuring Range	±5 mV/V, including zero adjustment range
Digital Zero	Executes digital zero within measuring range
Sampling Speed	Approx. 50 times/s
Calibration Modes	Actual load calibration Sensitivity registering calibration TEDS calibration by TEDS data, calibration files
Indication	LCD 128 x 64 dots with ON/OFF backlight Range: -9999.9 to 9999.9, freely set decimal point Units: Any one
Indication Accuracy	±(0.05% of reading +5) μm/m
Indication Modes	Strain mode: Switchable between με and mV/V Range: -9999.9 to 9999.9 Measure mode: Proper engineering units
Smoothing	Moving average: 1, 2, 4, 8, 16, 32, 64, and 128 times Minimum scale: 1, 2, 5, 10, 20, 50, and 100 steps Zero-near-zero: 0 to 9
Peak Hold	Digitally holds a max. value during measurement.
Comparators of 191AS1	Upper limit x1
Recording by 191AS1	Data recorded on every pressed key REC, and save as CSV files including time, part names, count values, units, limit values, ON/OFF. Part names and counts are set freely.
Interfaces	Micro USB 2.0
Power Saving	Auto off by preset time 0 to 99 min, and none, Backlight off by preset time 0 to 60 s, and none Low battery: Battery mark lights in 1/1, 1/2, 1/4, and flickers in low battery. Setting, calibration or recording is prohibited when the light flickers. Power Supply 2 AA-alkaline batteries
EMC Directive	EN61326-1 (Class A)
RoHS Directive	EN50581
Operating Temperature	-10 to 40°C
Operating Humidity	20 to 85%RH (Non-condensing)
Storage Temperature	-10 to 60°C
Operating time	72h continuously operate with alkali cells, when backlight off and 350-ohm transducers at 25 °C
Dimensions	66.5 W x 92.0 H x 28.0 D mm (Excluding protrusions)
Weight	Approx. 180 g (Excluding built-in batteries)

Standard Accessories 2 AA manganese batteries

Optional Accessories Input cable U-16, 0.5 m long
Soft case WDS-500-CASE with a strip
Bridge box DB-120C-2/3

Dimensions



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