

Sensor Checker

Enables Easy Checking of Transducer/Amplifier



WDS-500AE

- ◆ Enables easy checking of strain-gage transducers.
- ◆ Strain output enables checking of strain amplifiers.
- ◆ Strain, input/output resistance or insulation resistance can be measured individually by pressing the key.
- ◆ All these variables can be measured simultaneously in automatic mode.
- ◆ Enables reviewing of information of TEDS-installed transducers.
- ◆ Compact and lightweight (66.5 x 112 x 28 mm, approx. 200 g)
- ◆ Operates on 2 pieces of AA size dry cell which is available anywhere.

Specifications

General

Number of Measuring Channels: 1
Applicable Instruments: Strain-gage transducers & strain amplifiers
Display: Monochrome dot matrix, 100 x 64 dots
Sampling Rate: Approx. 2 times per second
Auto Power OFF: Selectable from 1 to 99 minutes or none
Low Battery Indication: BAT
Operating Temperature/Humidity Range:
-5° to 40°C, 20 to 85% RH (noncondensing)
Power Supply: 2 pieces of AA size dry cell
Continuous Operation: Approx. 8 hours (with manganese dry cells used for measurement of 350 Ω transducer under normal temperature)
Dimensions: 66.5(W) x 112(H) x 28(D) mm (excluding protrusions)
Weight: Approx. 200 g (including built-in dry cells)

Strain Measurement

Applicable Transducers: Strain-gage transducers
Applicable Bridge Resistance: 60 to 1000 Ω
Measuring Range: ±5 mV/V (±10000 με)
Bridge Excitation: Approx. 1 VDC
Number of Display Digits: 5
Indication Accuracy:
±(0.2% rdg. + 0.003) mV/V
±(0.2% rdg. + 5) με
Measurement Mode: Strain mode where input strain quantity is indicated in mV/V or με; zero compensation possible

Input/Output Resistance Measurement

Measuring Range: 0 to 2000 Ω
Indication Accuracy: ±(0.2% rdg. + 5) Ω
Continuity Check Function: Enables electronic buzzer to buzz against 10 Ω or less (with the strain input/output cable used).

Insulation Resistance Measurement

Measuring Range: 0 MΩ to 300 MΩ
Applied Voltage: Approx. 20 VDC
Indication Accuracy: ±(15% + 10) MΩ
Insulation Check Function: Enables electronic buzzer to buzz against insulation resistance less than 100 MΩ (with the strain input/output cable used).

Strain Output

Output Range:
0.000 to ±5.000 mV/V (0.010 mV/V steps)
0 to ±10000 με (10 με steps)
Output Accuracy:
±(0.5% of setting value + 0.020) mV/V
±(0.5% of setting value + 20) με
Input/Output Resistance: Approx. 350 Ω

Automatic Measurement Function

Enables simultaneous measurement of input strain, input/output resistance and insulation resistance.

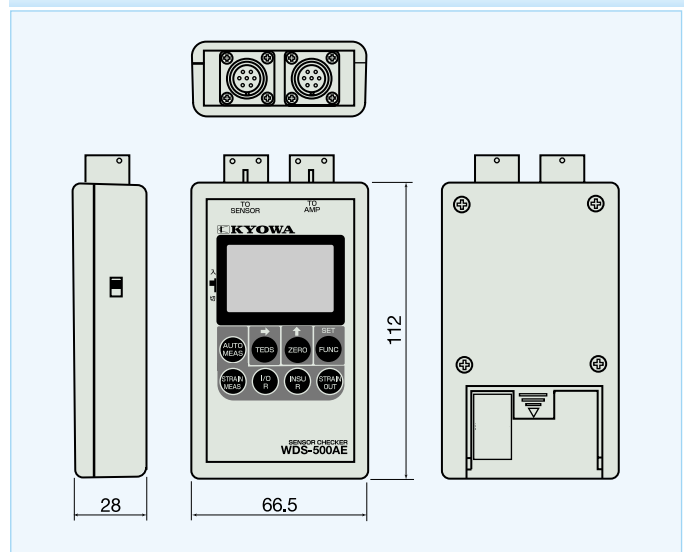
TEDS Information Indication Function

Indicated Contents: Model number of transducer, KYOWA original serial number, rated capacity, engineering unit of rated capacity, rated output, input resistance and serial number of TEDS format.

Options

- Vinyl case, strain input/output cable

Dimensions



Reliability through integration

KYOWA

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Specifications are subject to change without notice for improvement.



Safety precautions

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

Manufacturer's Representative