

WDS-500BE

Sensor Checker

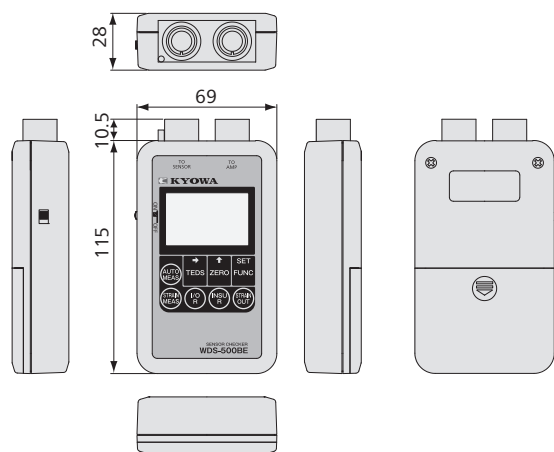
●Pocket-size checker



With this pocket-size checker,
it is easy to check a strain-gage
transducer and a strain amplifier

- Enables checking of both strain-gage transducers and strain amplifiers.
- Strain, I/O resistance or insulation resistance are measured individually by pressing respective keys.
- All these variables can be measured simultaneously in the automatic mode.
- Able to check an amplifier by measuring the strain output from the amplifier.
- Able to indicate the TEDS information of the TEDS compatible transducers.
- Compact & lightweight, just pocket size
- Powered by 2 AA size batteries.

■ Dimensions



WDS-500BE-0

Models

Models	Connectors
WDS-500BE-0	Round connector (PRC03 female)
WDS-500BE-1	Square connector (3RT01 female)

Specifications

Applicable Instruments	Strain-gage transducers, strain amplifiers
Display	Black and white dot matrix 100 × 64 dots
Sampling Speed	Approx. 2 times/s
Auto Power OFF	Selectable from 1 to 99 min or none
Low Power Display	Displays BAT when voltage is low
Operating Temperature	-5 to 40°C
Operating Humidity	20 to 85% (Non-condensing)
Power Supply	2 AA size batteries
Continuous Operation	Approx. 8 h (Manganese batteries, for 350 Ω transducer under intermittent Bridge Excitation)
Weight	Approx. 220 g (Including built-in batteries)
Dimensions	69 W × 115 H × 28 D mm (Excluding protrusions)
● Strain Measurement	
Compatible Bridge Resistance	60 to 1000 Ω
Measuring Range	±5 mV/V (±10000 × 10 ⁻⁶ strain)
Bridge Excitation	Approx. 2 VDC (Selection between intermittent and continuous impression)
Display Digit	5 digits
Display Accuracy	[mV/V] display: Within ±(0.2% of reading + 3 digits) [×10 ⁻⁶ strain] display: Within ±(0.2% of reading + 5 digits)
Measuring Modes	Strain mode: Where input strain quantity is indicated in mV/V or ×10 ⁻⁶ strain; zero compensation possible
● I/O Resistance Measurement	
Measuring Range	0 to 2000 Ω
Accuracy	Within ±(0.2% of reading + 5 digits)
Display	Less than 400Ω: 1 decimal place 400Ω or more: 1 decimal place is hidden
Conduction Check	Electronic buzzer sounds when it is 10 Ω or less (Uses strain input / output cable)
● Insulation Resistance Measurement	
Measuring Range	0 to 300 MΩ
Applied Voltage	Approx. 20 VDC
Display Accuracy	Within ±(15% of reading + 10 digits)
Insulation Check	Electronic buzzer sounds when less than 100 MΩ (Uses strain input / output cable)
● Strain Output	
Output Range	[mV/V] display: 0.000 to ±5.000 mV/V (0.005 mV/V steps) [×10 ⁻⁶ strain] display: 0 to ±10000 × 10 ⁻⁶ strain (10 × 10 ⁻⁶ strain steps)
Input Bridge Power	12VDC or less
Carrier Frequency Range	1 to 28 kHz
Output Accuracy	
DC Amplifier	[mV/V] display: Within ±(0.5% of set value + 0.020) [×10 ⁻⁶ strain] display: Within ±(0.5% of set value + 40)
Carrier Wave Amplifier	[mV/V] display: Within ±(5% of set value + 0.020) [×10 ⁻⁶ strain] display: Within ±(5% of set value + 40)
I/O Resistance	Approx. 350 Ω
● Automatic Measurement Functions	
Check Contents	Simultaneous measurement of Input Strain, I/O Resistance, and Insulation Resistance, then display the result data
● TEDS Information Indication Functions	
Display Contents	Model of transducer, Kyowa original serial number, rated capacity, engineering unit, rated output, input resistance and serial number of TEDS format

*Not suitable for calibration purpose

Standard Accessories	2 AA manganese batteries, instruction manual
Optional Accessories	Input cable U-16 (4-conductor, terminated with alligator clips) Silicon covers: WDS-500-COVER-B (Blue) WDS-500-COVER-R (Red) WDS-500-COVER-Y (Yellow) WDS-500-COVER-G (Green) WDS-500-COVER-D (Dark gray) WDS-500-COVER-L (Light gray) Soft case WDS-500-CASE (With shoulder strap)