

Digital Indicator

AD-4530

Digital Indicator for Strain Gauge Sensors



- *Suitable for measurement of load, pressure, torque, tension, and more*
- *Digital span calibration without a mass is possible*
- *Zero correction value can be stored*
- *Various output options are available*

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AD-4530 Digital Indicator for Strain Gauge Sensors

Specifications

Number of measurement points	— 1
Sensor type	— Strain gauge sensors
Sensor power supply	— 5 V, three sensors of 350 Ω maximum, one sensor of 120 Ω maximum
Calibration method	— Actual load calibration Digital span (calibration without a mass)
Measurement ranges	— Zero calibration range: -35 to +35 mV (-7 to 7 mV/V) Span calibration range: -35 to +35 mV (-7 to 7 mV/V) Minimum guaranteed input sensitivity: 0.4 μV/d Minimum display input sensitivity: No input sensitivity limit
Maximum display	— ±9999
Linearity	— 0.01% F.S. ±1 digit or less
A/D conversion	— 10 times per second
Temperature characteristics	— Zero: ±0.2 μV/°C typ. Span: ±30 ppm/°C typ.
Display panel	— 4 red 7-segment LEDs with a height of 14 mm, along with a minus sign and 5 status indicators

General specifications

Power requirements	— 100 V AC to 240 V AC ($\pm 15\%$), 50/60 Hz, approx. 10 VA (A power supply cable must be obtained separately.)
Weight	— Approx. 290 g
Operating temperature and humidity	— -10°C to +40°C, Max. 85% RH (no condensation)
External dimensions	— 96(W) × 48(H) × 127.5(D) mm
Panel cutout dimensions	— 92 × 45 mm

Standard accessories

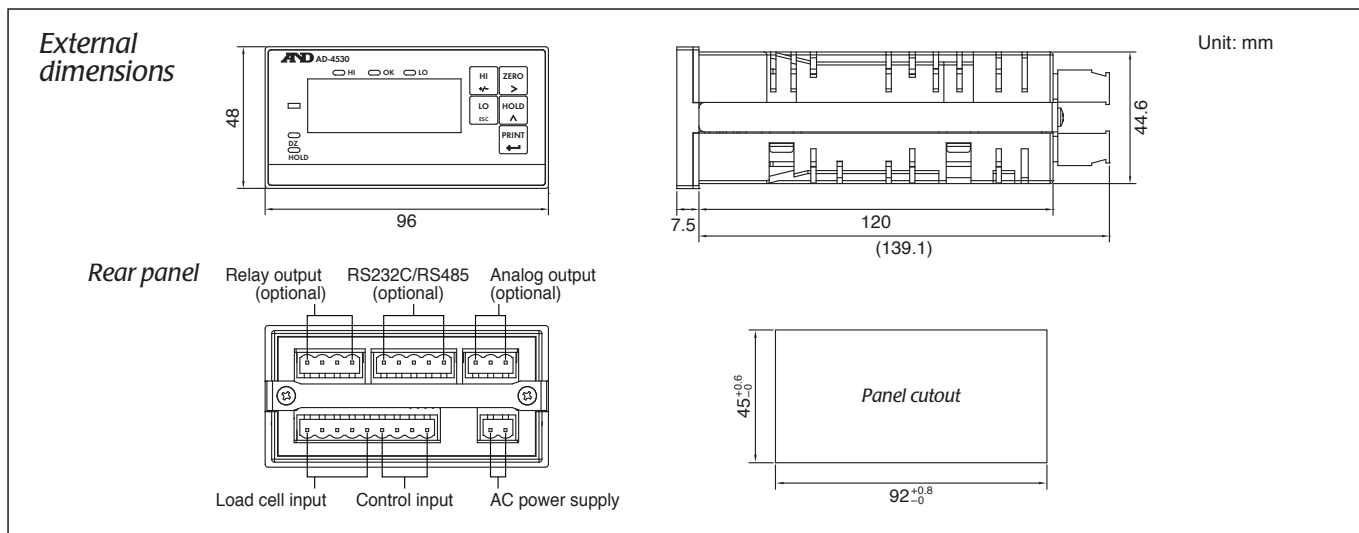
Power connector (2-pin), load cell / control input connector (9-pin),
brief instruction manual

Functions

Comparator function	— Displays HI, OK and LO according to upper and lower limit settings One of the optional outputs AD4530-200 / 237 / 247 is required
Hold function	— Selectable from sample hold, peak hold, bottom hold and bipolar hold
Latch function	— Provides latches on display value / comparator (optional) / analog output (optional) / serial output (optional) corresponding to external latch input
Chattering prevention function	— Hysteresis width and time can be set to reduce load on relay circuit
Power on zero function	— Zero adjustment is possible when turning power on
Unit characters	— Unit characters can be added to serial output (optional)

Options

- **AD4530-200 Relay output**
HI, OK, LO contact outputs, 250 V AC or 30 V DC, 3A, mechanical contact,
contact arrangement 1A, 4-pin connector included
 - **AD4530-030 RS485**
Up to 31 units can be connected, 5-pin connector included
 - **AD4530-040 RS-232C input/output**
5-pin connector included
 - **AD4530-007 D/A analog output**
Temperature coefficient 100 ppm/°C (typ.), 3-pin connector included
Voltage output 0 to 10 V, current output 4 to 20 mA, scaling is possible
Output resolution 1/8000 (13 bit equivalent)
 - **AD4530-237**
Relay output, RS485, D/A analog output, 3-pin/4-pin/5-pin connectors included
 - **AD4530-247**
Relay output, RS232C, D/A analog output, 3-pin/4-pin/5-pin connector included
- * The options above cannot be used at the same time.



Appearance and/or specifications subject to change for improvement without notice.

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