

Model 7561-PSD

Portable Strain Display Load Cell/Force Indicator



DESCRIPTION

The 7561-PSD is a completely portable strain gage/bridge-based battery-powered indicator, packaged in a small, robust IP65/NEMA 4 enclosure. For simplified use, the operator only has access to six keys.

Two separate ranges are available which enable the instrument to read and display two units of measure.

The menu options offer the ability to tailor the instrument's response to the application. Gross, net, peak, and trough (valley) measurements are easily selected. An annunciator indicates which range has been selected. There is also a window, to insert a legend, describing each range. Once these parameters are set, it provides the user with the simplest of indicators.

FEATURES

- Powered by two AA internal batteries
- Portable, handheld precision instrument weighing only 250 g
- Tactile keyboard, with dual-range selection, peak/valley hold, gross/net, and on/off controls
- Microprocessor based, allowing single-pass calibration facility
- Dual range facility
- Accepts an input range of up to 50 mV/V
- Environmentally sealed to IP65/NEMA 4
- 7½ digit LCD display, with battery, peak, trough, net, error, and shunt cal indication
- One-year warranty
- Auto sleep

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PERFORMANCE SPECIFICATIONS

Characteristic	Measure
Input type	Strain gage full-bridge sensors
Input range	Up to ± 5 mV/V (± 50 mV/V can be supplied with factory-set option)
Nonlinearity	± 0.005 % FSD
Thermal drift	< 25 ppm/ $^{\circ}$ C
Excitation voltage	5 Vdc (± 4 %), 59 mA max. current
Bridge resistance, min.	85 ohm (4 off 350 ohm sensors in parallel)
Internal battery	Two off AA size alkaline, access via sealed rear compartment
Battery life	45 hours (typ. 450 hours in lower power mode) with 350 ohm sensor
Update rate	Up to 40 ms (can be set in configuration menu)

INDICATION SPECIFICATIONS

Characteristic	Measure
Display type	7½ digit LCD display, 8.8 mm high digits
Display resolution	1 part in 250000 at 1 Hz update rate; 1 part in 65000 at 10 Hz update rate
Annunciators	Low battery warning; peak, trough; hold; net; shunt cal; range

CONTROL VARIABLES SPECIFICATIONS

Characteristic	Measure
Front panel user keys	Tactile keys with recessed rims for:
On/off/trough	Switches power on/off displays trough read.
Range	Selects between two ranges
Peak	Displays peak reading
Hold	Switches hold on/off
Gross/net	Toggles between gross/net readings
Shunt cal	Puts in shunt cal mode (100 K resis.)
Settable parameters	Tare/zero value; display resolution/decimal point position; display update rate; low power mode; auto power off

MECHANICAL SPECIFICATIONS

Characteristic	Measure
Electrical connection	5-pin Binder socket (mating plug supplied)
Physical size (H x W x D)	152 mm x 90 mm x 34 mm [5.98 in x 3.5 in x 1.39 in]
Weight	260 g
Legends	Insert legends for engineering unit identification (supplied)

ENVIRONMENTAL SPECIFICATIONS

Characteristic	Measure
Operating temperature	-10 $^{\circ}$ C to 50 $^{\circ}$ C [14 $^{\circ}$ F to 122 $^{\circ}$ F]
Environmental rating	IP65 (when mating plug fitted)

Warranty. Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. **The foregoing is buyer's sole remedy and is in lieu of all warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.**

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

For more information about Sensing and Control products, visit www.honeywell.com/sensing or call +1-815-235-6847

Email inquiries to info.sc@honeywell.com

 **WARNING**
PERSONAL INJURY

- DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

 **WARNING**
MISUSE OF DOCUMENTATION

- The information presented in this catalogue is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.