

## Strain Gauge or Load Cell Hand Held Display



*The PSD portable display combines extremely high resolution and low power with the convenience of a hand held display and keypad*

### Introduction

The PSD is a completely portable (strain gauge) powered indicator, packaged in a small, robust IP65 / NEMA 4 enclosure. Two separate ranges are available, which enable the instrument to read and display two units of measure. For simplified use, the operator only has access to six keys.

The menu options offer the ability to tailor the instruments response to the application. Gross, Net, Peak and Trough 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.

### Specification at a Glance

- Powered by 2 x AA internal batteries
- Microprocessor based, allowing single pass calibration facility
- Accepts an input range of up to 50 mV/V
- Environmentally sealed to IP65 / NEMA 4
- 7 digit LCD display, with battery, peak, trough, net, error and shunt cal indication
- TEDS enabled for automatic sensor calibration (IEEE1451 - template 33)
- Auto sleep
- 1 year warranty
- The case is Registered Design No. 3021311
- Environmentally sealed to IP65 / NEMA 4 enclosure dimensions 90 x 152 x 55 mm

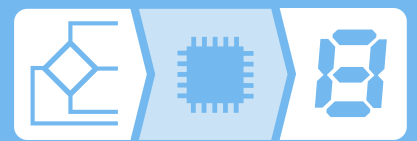


### User Benefits

- Battery life of 450 hrs in power save mode
- Dual range facility
- Tactile keyboard, with dual range selection, peak/valley hold, gross/net and on/off controls
- Available with RS232 output option
- Easy to carry only 250 grams

### Ideal Applications

- Civil Engineering
- Test & Measurement
- Lifting & Handling
- Silo & Weighing
- Chemical
- Process Industry



## Related Product



**PSD232**

Portable digital load cell indicator with RS232 TEDS enabled



**Carry Case PSD**

Black carry case with clear viewing window and shoulder strap for both versions of PSD

## Case Study

### The Application:

Load cell hire companies have extensive experience of hiring load monitoring equipment to a vast range of market sectors, often in rugged environmental situations. Dealing with many different ranges of load cells can cause complications when choosing a suitable handheld to display the load cell readings.

### The Solution:

The PSD offers dual range when two different units of measure are required for example, kilograms (kg) and pounds (lbs). It copes with all types of rugged environmental conditions which hire companies can often



experience. The tactile Gross and Net keys allow for the basic functionality of a weighing display, whilst the Peak, Trough and Hold facility are for advanced user requirements in more dynamic applications. The high accuracy and stability of the PSD as well as the Shunt Calibration feature, provides high confidence in the measured result. The low power mode gives up to 5000 Hours operation from 2 x AA cells and giving 35 hours with a 350 Ohm sensor in a continuously powered mode. This is ideal for the hire market ensuring no battery changes are required by operators.

## CE & Environmental

Storage temperature	-40 to +65°C (excluding batteries)
Operating temperature	-10 to +50°C (excluding batteries)
IP Rating	IP65 / NEMA 4

### CE Environmental Approvals

European EMC Directive	2004/108/EC
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