# **PSDS-HSBK Quick Start Guide**

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## **PSDS-HSBK**

Portable Sensor Display – Strain Bridge



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#### Introduction/overview

The PSDS-HSBK allows simple display of strain bridge based measurements such as load cells and pressure gauges with sensitivity up to +/-480 mV/V.

Up to six **calibration ranges** are available allowing for different loading modes (tension and compression) or different sensors. Each calibration range will remember settings that contribute to the **user experience** such as selected units and tare values.

TEDS devices using templates 33, 40 and 41 can be connected and will update the viewed calibration. The last twenty TEDS devices connected will be remembered and recognized when connected again reverting to the last user experience settings for that device. TEDS can be disabled and the internal calibration ranges become available again.

There are also up to six **display modes** available. These determine what is visible on the LCD display and what actions are available from the set of three soft keys.

Full configuration is available with a free PC based toolkit. Some simple configuration such as two point calibration is available from within the handheld using the **menu system**.

#### Getting started

This document is designed to give a very quick overview of the PSDS-HSBK and its general, standard functionality. For more details, see the full manual.

#### Hardware overview







The Load Cell connector fitted to PSD Standard Product is BINDER 770-8. The cable fitted mating connector is a BINDER 771 8-way male connector. There are three versions available with different field cable diameters.



View from solder connector side of the connector

Cable pair	Suggested Colour	Connector Pin	Function
1	White	1	Loadcell Reference +ve
	Black	2	Loadcell Reference -ve
2	Green	3	Loadcell Signal +ve
	Black	4	Loadcell Signal -ve
3	Red	5	Loadcell Excitation +ve
	Black	6	Loadcell Excitation -ve
4	Blue	7	TEDS
	Black	8	Ground
Screen	Grey		Cable screen should <i>only</i> be connected to
			chassis of the sensor.
			If this cannot be achieved, then it should be
			connected to Excitation -ve.

Тор

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#### Setting up without the Toolkit

Quick, limited setup is possible using just the handheld and no toolkit. To access all the configuration features, you will need to use the toolkit.







## Change units

In all standard display modes, 🕓 🥯

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scrolls through the available units for the selected calibration.

## Change decimal places

In all standard display modes, a 2 second press shifts the decimal place position for the selected units.

#### Overload/underload alarm

Please note, the values saved for the thresholds are applied in the calibrated units of the currently selected range. This means that different ranges will trigger at different loads if the calibrated unit is different.







#### Using TEDS

Plug in a TEDS enabled load cell.







## Toolkit

#### **Toolkit overview**

More complex setup is possible using the supplied toolkit software. Install the toolkit onto your windows PC and connect the USB to the PSDS-HSBK. Then open the toolkit:



2. Click Connect

Navigation is achieved using the icons along the top of the toolkit.



For further information, please see the PSDS-HSBK User Manual.

Document Title:PSDS-HSBK Quick StartApplies To:PSD (Portable Sensor Display)Part Number:517-952Issue Number:01.00Dated:23<sup>rd</sup> May 2022



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