

FSU-SSBD

Fast Loadcell Digitiser

- ◆ 4800 samples per second
- ◆ 13 bit noise free resolution
- ◆ Capture up to 30 minutes of data
- ◆ Quick and easy connectivity via USB
- ◆ Toolkit software for simple use
- ◆ Traceable system calibration certificate



The FSU-SSBD is a fast, compact, high precision loadcell input module delivering high resolution readings over USB and communicated directly to a PC. It is aimed at dynamic applications that require high speed measurement.

It delivers high speed measurements of 4800 samples per second at 13 bit noise free resolution.

Simply by plugging the device into a PC, data can be measured from a loadcell using the FSU-SSBD for a wide range of high speed systems. This is achieved using the powerful Toolkit software to provide optimised, fast viewing of data. It allows the viewing of input status and module information, simple switching between engineering units as well as two part calibration, high speed navigation and FFT frequency component analysis. Data can be exported to a CSV file.

This free-standing module is fitted with 9-way 'D' type socket for connection to the loadcell while a micro USB socket allows connection to a PC and does not require external power. A DIN rail mounting option is also available.

If the FSU-SSBD is supplied with a loadcell it will normally be calibrated to read the loadcell output in the same force units as the loadcell calibration. A traceable system certificate will be supplied for the FSU and loadcell combination.

Alternative calibrations are possible; please consult our engineering department to discuss your requirements.

This digitiser can be used with any of our loadcells.

FSU-SSBD Specification

Description	Min	Typical	Max	Units
Bridge Excitation	4.5	5	5.25	Vdc
Loadcell Excitation System		4 wire		
Bridge Impedance	80	350	5,000	Ohms
Bridge Sensitivity	-3		+3	mV/V
Offset Temperature Stability		1	4	ppm/°C
Gain Temperature Stability		3	5	ppm/°C
Offset Stability with Time		20	90	ppm of FR *
Gain Stability with Time			30	ppm of FR /1st Year
Non-linearity		5	25	ppm of FR
Internal Resolution		16 Million		Counts/Divisions
Resolution at 4.8kHz (Noise Stable) **		8192		Counts/Divisions
Resolution at 4.8kHz (Noise Stable) **		13		bit
USB cable length			5	m
Case dimensions	See diagram below			
Operating temperature range	-40		85	°C
Storage temperature	-40		85	°C
Humidity	0		95	%RH Non condensing
Protection	IP50			

Notes:

* From original offset at any time.

** Stability over 1 second period.

FR = full range.

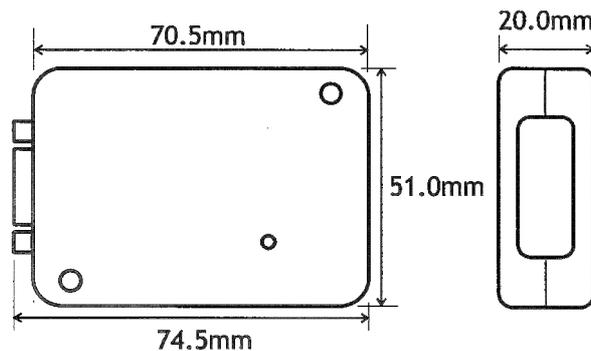
RH = relative humidity.

Order codes

FSU-SSBD-A Cased USB high speed digitiser. High stability.

D4 DIN rail mounting clips.

Manuals and supporting software can be downloaded from the internet. Please consult our engineering department for help with your requirements.



CE This product complies with the requirements of the European EMC directive.

Novatech reserves the right to vary the foregoing details without prior notice

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NOVATECH MEASUREMENTS LTD

*** Manufacturing loadcells since 1972 ***

83 CASTLEHAM ROAD, ST LEONARDS ON SEA, EAST SUSSEX, TN38 9NT, ENGLAND

Tel: 01424 852744

email: info@novatechloadcells.co.uk

Fax: 01424 853002

www.novatechloadcells.co.uk