

130S-01 Broadband Seismic Recorder Data Sheet

The 130-01 broadband seismic recorder has been designed to be easier to use, more compact, lighter in weight lower power and requires less maintenance than other recorders. Not only is the hardware optimised for field deployments but software tools have been specifically designed to support both field and base station operation. The 130-01 is inherently waterproof, with easy access to all user features.



130S_01 Broadband Seismic Recorder. Image courtesy of RefTek, a Trimble brand.

The 130S is available with three or six input channels (for connection to any sensor available in the seismology market).

To maintain accurate time over a long period, the 130S uses both a high-precision TCXO and an external reference provided by the GPS Receiver/Clock that uses GPS for time, frequency and position reference.

Setup, control, and status monitoring is accomplished with either: the iFSC App which works with the iPod Touch and iPhone via a WiFi Serial Adaptor; or from a PC/workstation via the NET connector using the Trimble REF TEK Interface software (RTI) without a terminal device attached.

The 130S is low-power and operates from 12 Volt power sources, making it ideal for portable deployment in a variety of environments where AC power is not available.

Product Dimensions

Physical	Dimensions (L x W x H)	Weight
(instrument only)	16cm x 33.3cm x 17.5cm	2kg

Technical Specifications

A/D Conversion:	?-? modulation, 24-bit resolution.
Channels:	3 or 6.
Dynamic Range:	>138 dB @ 100 sps.
Gain:	X1 and x32.
Input Full Scale:	40 VPP @ x1 and 1.24 VPP @ x32.
Noise Level:	~1 count RMS @ 50 sps @x1.
Sample Rates:	1000, 500, 250, 200, 125, 100, 50, 40, 20, 10, 5, 1 sps.
FIR Filter:	130 dB down passband to Nyquist.
Common Mode Rejection:	>70 dB within ± 2.5 VDC.
Time Base:	GPS- Accuracy ± 10 μ sec after validated 3-D Fix and Locked. Free running- 0.1ppm over the temp. range of 0° to 70°C and 0.2 ppm from -20° to 0°C
Memory:	Hard Dish 8 GB or 16 GB CFII Card, selectable in "RingBuffer" Configuration.
Data Format:	PASSCAL Recording Format.
Recording Modes:	<ul style="list-style-type: none"> - Continuous - Time Trigger - Event Trigger - Level Trigger - Vote Trigger - Cross Trigger
Environmental:	IP68.
Shock:	Survives a 1 meter drop on any axis.
Operating Temperature:	-20° to +70°C
Power:	9-24 VDC.