DATS-solo

Pocket-sized, ultra portable, high quality, 24-bit data acquisition system

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- Tough & highly portable
- Comes with capture software
- Wide range of optional software
- USB powered by laptop/PC
- Rugged (MIL-STD vibration tested
- IEPE, voltage & tachometer inputs

The DATS-solo is a pocket-sized, ultra portable, high quality, 24-bit data acquisition system. It is compact, rugged and has 4 inputs selectable as IEPE, voltage or tachometer inputs. Inputs are via industry standard SMA connectors with optional adapters for other connectors. The size, tough packaging and power from USB make it ideal for mobile use. There is full internal signal conditioning for IEPE, voltage inputs, gains, anti-alias filters. These are all controlled by the DATS software.

The integrated DATS software provides options for

- acoustic & vibration testing
- rotating machinery analysis
- NVH tests
- hammer impact analysis
- resonance testing
- modal analysis
- and more

The DATS-solo - a complete solution!

peak
www.peak-g.com
sales@peak-g.com
(616) 773-2872
US DISTRIBUTOR
sales service warranty calibration

PROSIG
A CMTG COMPANY

Link House, High Street
Fareham, Hampshire
PO16 7BQ
United Kingdom
sales@prosig.com

UK: +44 (0)1329 239925
USA: +1 847-228-0985
France: +33 (0)130 751507
Italy: +39 0331 178 5834

QUALITY SYSTEM CERTIFICATION
DNV
ISO 9001

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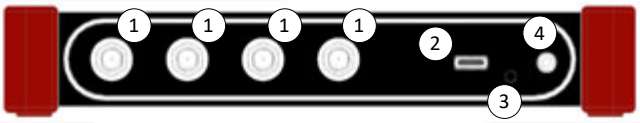
CONNECTORS



1 Analog/tacho inputs
2 USB-C (Data & power)
3 Power LED
4 Electrical ground

Measurement Sensors

The DATS-solo can measure the following:

Vibration	**Acoustics**	**Tachometers**
Displacement	**Pressure**	**Torque**
Shock	**Force**	**Position**
Load		

Or any other suitable IEPE or externally powered sensor

SYSTEM

Inputs	4 x analog (IEPE or voltage)
Maximum sampling rate	144k samples/sec/channel
Resolution	24 bit
Noise floor	-130dB
Overall accuracy	± 0.10% FSD
Input voltage range	9 selectable ranges
Input impedance	1MΩ
IEPE power	20V@4mA switchable
Communications	USB

ANALOG INPUTS

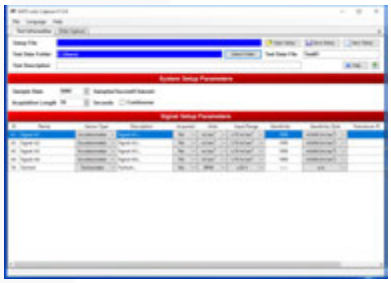
Input mode - Analog	IEPE (single ended), voltage (differential)
Anti-alias protection	>150dB
Dynamic range	100dB @ 10k samples/second
Maximum input range	± 24V

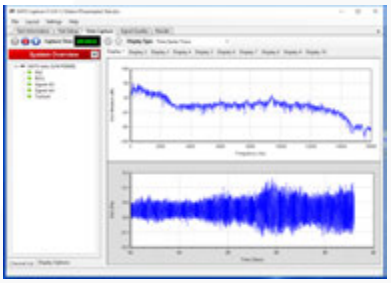
TACHOMETER INPUTS

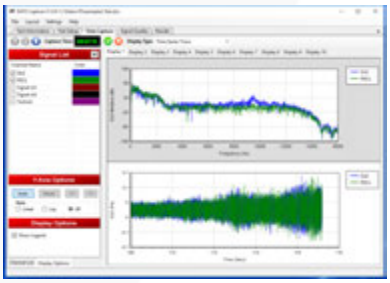
Input mode - Tachometer	IEPE, voltage
Tacho range	2,160,000rpm @ 1ppr
Tacho input range	± 24V

ENVIRONMENT & GENERAL

Operating temperature	-30°C to 65°C (-22°F to 149°F) (Cold start)
Shock and vibration	MIL-STD-810G 2014, 514.7C-2
Humidity	95% RH, non-condensing
Power usage	< 2W (worst case)
Shock and vibration	MIL-STD-810G
IP Rating	IP54
Supply voltage	USB 5V
Connectors	4 x SMA (Analog inputs) USB-C (Power & data) Electrical ground
Dimensions (H x W x D)	30mm x 167mm x 97mm 1.2" x 6.6" x 3.8"
Weight	365g (0.80 lbs) 823g (1.81 lbs) with case and accessories







Specifications may be subject to change without prior notice.

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PO16 7BQ
United Kingdom
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