DATA SHEET

Adash A4801 Sensor Simulator

Adash 4801 - Sensor Simulator
Signal Generator for Testing

Application:
📂 Generation of well-defined test signal for systems checks

📂 Check of functions of measurement system

📂 Check of correct calibration of measurement system

📂 Check of correct functions of cables (on-line systems)

Characteristics:
📂 Output of test vibration signal

📂 ICP$^®$ powering from measurement system

📂 LED indication of ICP$^®$ power

📂 BNC and MIL C5015 standard output connectors

Description:

The 4801 device simulates a standard ICP$^®$ vibration sensor with sensitivity of **100mV/g**. It does not need any extra external power supplying. The output signal is the addition of two sine waves of 0.51g / 80Hz and 0.50g / 8kHz. This device so enables to test and set systems, instruments and cables for vibration measurements in very simple way. Also is very suitable for setting of control systems. The output signal is simultaneously connected to both output connectors. The device does not contain an internal reset circuit. If necessary reset the device manually (unplug / plug in the cable).

📂 **Technical specification:**

Output of RMS:	51 mV / 80 Hz + 50 mV / 8 kHz
	5.0 m/s^2 / 80 Hz + 4.9 m/s^2 / 8 kHz
	0.51 g / 80 Hz + 0.50 g / 8 kHz
	10 mm/s / 80 Hz
	0.39 in/s / 80 Hz
Connectors:	BNC, MIL C5015
Indication:	LED indication of ICP$^®$ supplying
Supply:	ICP$^®$ from measurement system
Dimensions:	90 x 35 x 60 mm
Weigh:	115 g
Protection:	IP 20

This unit generates 80Hz & 8kHz.
The table shows the amplitudes to expect in various units.

unit	80Hz		8kHz		Overall
	RMS	PEAK	RMS	PEAK	RMS
mV	51	70.7	50	70.7	71.4
m/s²*	5.0	7.1	4.9	6.9	7.0
g*	0.51	0.72	0.50	0.71	0.71
mm/s*	10.0	14.1			
ips*	0.39	0.56			

* - for input sensor sensitivity 100mV/g

Nominal amplitudes: +/- 2% at 25°C (77°F)
Temp. variation less than: 1‰ / 1°C (0.6‰ / 1°F)
ICP power: 18-36V, 4-10mA   DC BIAS: 12V to 14V