









Model 4807A Low Noise DC Accelerometer





Product Description:

- DC (static) response accelerometer
- Extremely low noise floor
- Critically damped MEMS sensor
- Remote auto zero function
- Temperature compensated output
- Broad frequency bandwidth
- High shock survival limit
- Hermetically sealed, stainless steel housing
- Designed for plug-&-play



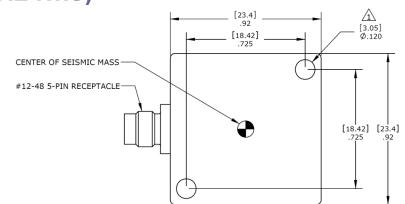


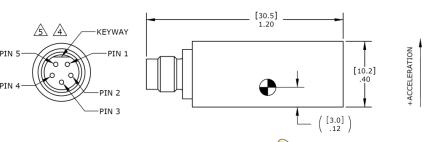


Unique Specifications:

- ±2g to ±500g Full Scale Range
- High Resolution (as low as 2 µg/√Hz rms)
- 96 dB Dynamic Range
- Flat up to 1,500 Hz, ±5%
- Compensated from -54°to 121°C
- Powered from +8 to +18 Vdc
- Shock rated to 10,000 g









Tel: +44 (0) 1908 543038 Fax: +44 (0) 8700 940810
The Old Barn, Woods Lane, Potterspury, Northants, NN12 7PT
Fmail: sales@strainsense.co.uk Web: www.strainsense.co.uk



Key Advantages:

- An order of magnitude lower in noise than the competition
 - Offer up to 20+ dB more in dynamic range



- Temperature compensated output
 - > <2.5% thermal sensitivity shift and <2% FSO in thermal zero shift over the entire temperature range
- Auto-zero on demand (patent pending)
 - Eliminate integration error due to long-term zero offset drift



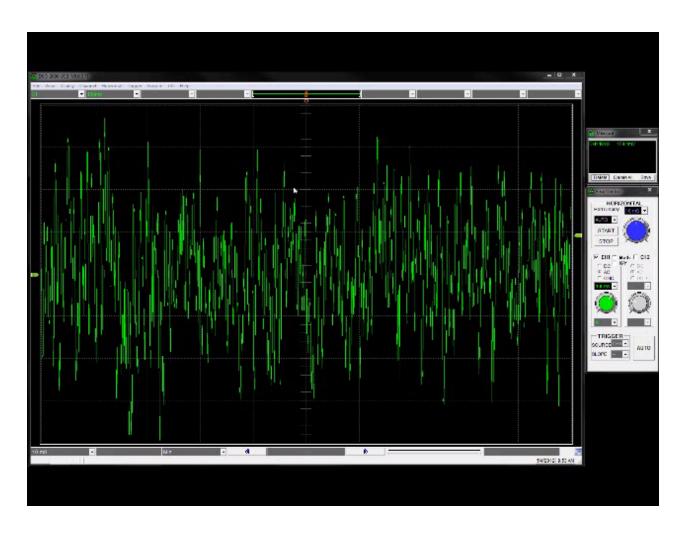
Available Ranges:



PARAMETERS	VALUE									UNITS
DASH NO.	-002	-005	-010	-020	-030	-050	-100	-200	-500	
DYNAMIC RANGE	±2	±5	±10	±20	±30	±50	±100	±200	±500	g
SENSITIVITY ±5%	1000	400	200	100	67	40	20	10	4	mV/g
FREQUENCY RESPONSE ±5%	0-200	0-300	0-400	0-700	0-700	0-1000	0-1500	0-1500	0-1500	Hz
NOISE (PASSBAND)	25	20	23	31	36	26	32	32	32	μVrms
NOISE (SPECTRAL)	2	3	6	12	21	21	41	82	210	μg-rms/√Hz

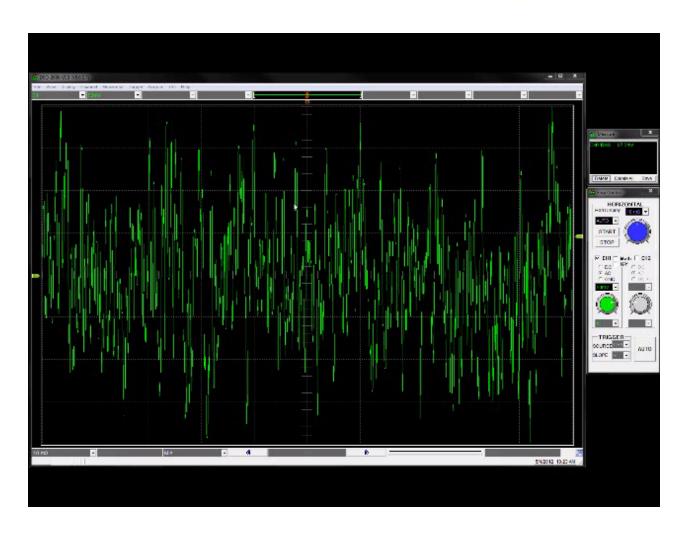






Broadband residual noise of Silicon Design (Dytran), x100 gain

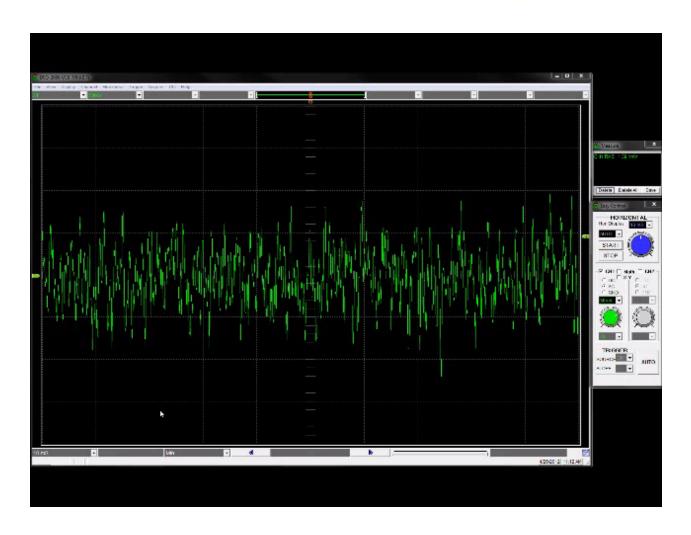




Broadband residual noise of Colibrys (PCB), x100 gain



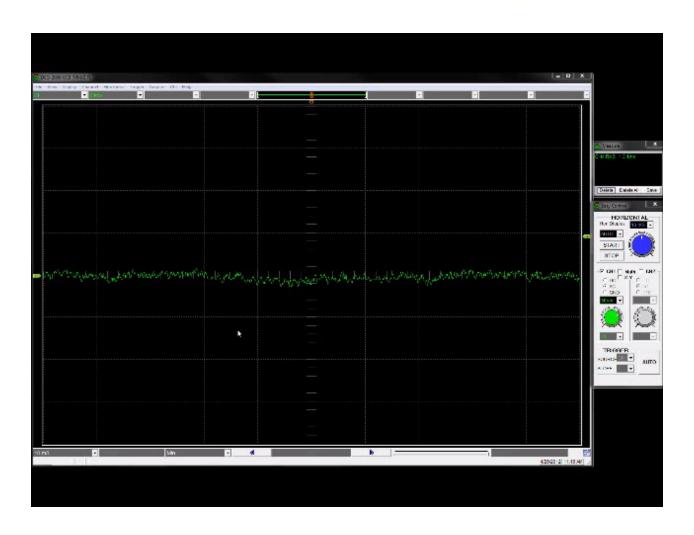




Broadband residual noise of existing MEAS 4610, x100 gain







Broadband residual noise of the new 4807A, x100 gain





Applications:

- Seismic Studies
- Vibration Cancellation
- Dynamic Motion Analysis
- Structural Monitoring











Commercial Details:

- Price:
- Call 01908 543038 or email sales@strainsense.co.uk
- MOQ: 1
- Lead Time: 6 weeks if not in stock
- Place of Manufacturing: SHZN
- Safety Stock: 10 pcs on popular ranges
- Working/Evaluation Sample: Upon request
- Export Classification: EAR99
- Calibration: Certificate supplied
- Optional Accessories: Model 341A cable,
 Model 101 Amplifier





measurement

Sales/Marketing Literature:



http://www.strainsense.co.uk/



Operating Manual:









Telephone: 01908 543038

Email: sales@strainsense.co.uk

Web: www.strainsense.co.uk

