

The DynaDAQ is a triaxial vibration recorder with integrated environmental sensors. Offering selectable measurement ranges up to ± 40 g and a wide frequency response, it ensures accurate data collection for diverse testing needs.



DynaDAQ is a portable measurement system that brings together sensors, data storage, and a rechargeable battery in one compact device. It can be set up quickly over USB and used right away. With multiple accelerometers and built-in sensors, it adjusts easily to different test needs. DynaDAQ provides reliable measurements and offers large storage capacity for long-term data collection.



Features

- Triaxial MEMS Capacitive Accelerometer
- Resolution: 20-bit
- Sample Rate: 15 to 4000 SPS (Customize)
- Measurement Range: ± 10 , ± 20 , ± 40 g
- Frequency Range (± 5 %): DC to 535 Hz
- Frequency Range (± 10 %): DC to 620 Hz
- Frequency Range (3dB): DC to 950 Hz
- Housing material: Aluminum/Stainless Steel
- Length 48 mm* (1.88")
- Width 48 mm* (1.88")
- Thickness 22 mm (0.86")
- Ingress Protection IP50 (Dust Protected)
- Battery: 800 mAh
- Storage: 16 GB



Applications

- Vibration Sensing & Recording
- Shock & Impact Testing
- Shipping & Transport Monitoring
- Wi-Fi Enabled Wireless Monitoring
- Environmental Testing

Sample Rate	Storage Capacity	Continuous Recording Mode	Trigger Recording Mode
15 Hz	100 days	23 hours	60 hours
4,000 Hz	100 hours	22 hours	60 hours



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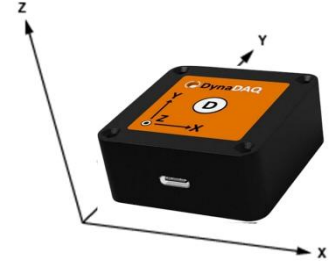
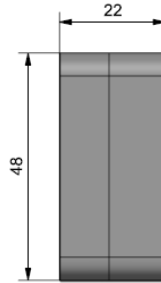
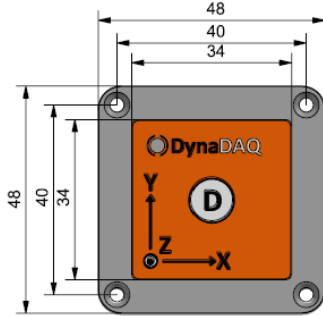
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Technical Drawing:



Full-Scale Acceleration	(g)	±10	±20	±40
Sensitivity	(LSB/g)	51200	25600	12800
Scale Factor	(μg/LSB)	19,5	39	78
Sensitivity (Change/°C)	(%/°C)	±0.01	±0.01	±0.01
0 g Offset	(mg)	±125	±125	±125
Noise	(μg/√Hz)	75	85	90
Non-Linearity	(%)	0,1	0,5	1,3
Resolution (1LSB)	(μg)	20	40	80

Sample per second (SPS)	Low-Pass Filter (Hz)
3,90625	0,97
7,8125	1,9
15,625	3,9
31,25	7,81
62,5	15,62
125	31,25
250	62,30
500	125
1000	250
2000	500
4000	1000

Storage	Battery	Operating Temperature	Shock Limit
16 GB	800 mAh	-40 °C to + 85 °C	5000 g

Ingress Protection	Resolution	Mounting	Housing Material	Weight (without cable)
IP 50 (Dust Protected)	20-bit	Adhesive or screw holes	Aluminum Aluminum/ Stainless Steel	75 g



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