# ANALOG CAPACITIVE ACCELEROMETER

# **DynaLabs**

### **DYN-C-1000-SE**

Capacitive accelerometers are based on proven micro-electro-mechanical systems (MEMS) technology.





- Accurate DC measurement
- Voltage Output
- High shock protection
- Low noise high resolution
- Single-ended output signal
- Gas damping
- Low cost sensors

These capacitive accelerometers are reliable and long-term stable. They have DC response. The advantage of these sensors is their outstanding temperature stability, low noise- high resolution features and their low cost. These sensors have reliable aluminum housing with IP68 protection class. Dynalabs 1000SE series uniaxial accelerometers provide an outstanding noise performance from 25 to 1,200  $\mu$ g/ $\sqrt{Hz}$ . These accelerometers provide a wide frequency range (±3dB) from 1,500 Hz to 3,000 Hz.



#### **Application Areas**

- Structural monitoring and testing
- Aerospace vibration testing
- Automotive ride quality & comfort
- Railway engineering
- GVT and flutter testing

		1002SE	1004SE	1008SE	1010SE	1020SE	1040SE	1050SE	1100SE	1200SE	1500SE
Full-scale Acceleration	(g)	±2	±4	±8	±10	±20	±40	±50	±100	±200	±500
Frequency Range (±3 %)	(Hz)	1,500	1,500	1,500	1,500	1,500	1,500	3,000	3,000	3,000	3,000
Non-linearity (Full Scale)	(%)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Noise (in band)	(µg/√HZ)	25	25	25	80	80	110	130	220	550	1,200
Scale factor (nominal)	(mV/g)	400	200	100	80	40	20	40	20	10	4
Shock survivability	(g)	5,000	5,000	5,000	5,000	5,000	5,000	6,000	6,000	6,000	6,000



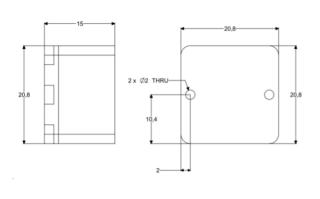
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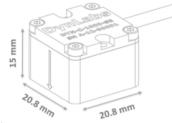
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## DynaLabs ANALOG CAPACITIVE ACCELEROMETER

### **DYN-C-1000-SE**





### **OPTIONS:**

- Custom Cable Length (5m standard cable)
- Custom Housing Material
- Custom Connector
- Base plate

Standard length of the integrated cable is 5 meters. But, based on request customized cable lengths are possible.

Standard version has no connector at the cable end. However, it is possible to assemble connector during production.

### **CABLE CODE/PIN CONFIGURATION:**

- Red : V + Power supply voltage
- Black : Ground Power GND
- X : Yellow : Signal Out Blue : nc Not Connect

Cable: 4x #28 AWG Conductors PFA Insulated, Braided Shield, TPE Jacket

Protection Level	Operating Voltage	Operating Temperature	Weight (without cable)
IP 68	6 V - 40 V (±2g to ±40g) 6 V - 35 V (±50g to ±500g)	-40 °C to +100 °C	15 g (aluminum) 25 g (steel)
Housing Material	Connector (Optional)	Mounting	Base plate (Optional)



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