



M20-600 SPECIFICATIONS

M20-600 Low-Frequency Particle Motion Sensor

OVERVIEW

The M20-600 is designed for 2-D particle motion measurement or low-frequency directivity in a broad range of environments. It is suitable for a variety of different applications including marine mammal detection, ocean environmental monitoring, antisubmarine warfare [ASW], marine surveillance, and offshore oil and gas monitoring.

It includes:

- Two Orthogonal Compass Orientation Dipole Sensors, Resolved in their North and East Components.
- Omnidirectional Acoustic Pressure Sensor.



CHARACTERISTICS

PHYSICAL:

Maximum Operating Depth	1000 Meters
Mass	1.2 Kg
Apparent Mass in Water	0.6 Kg
Storage Temperatures	-40°C to +70°C
Operating Temperatures	0°C to +35°C

ACOUSTIC:

Operational Frequency Range	1.0 Hz to 3.0 kHz
Power Requirements	5-15 VDC <300 mW @5VDC
Acoustic Output Type	Differential Voltage
Receive Sensitivity	Refer to Graph Below
Fluid Compatibility	Water

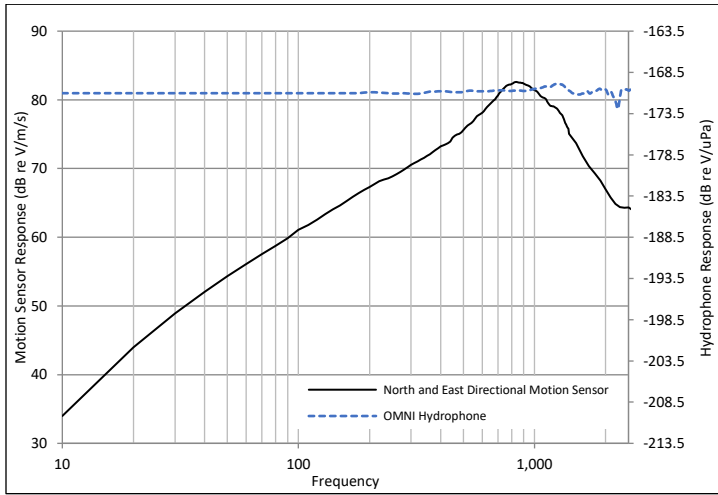


Figure 1: Receive Sensitivity Response for M20-600 with 20Hz Roll-off Frequency and 25dB Pre-Amp Gain

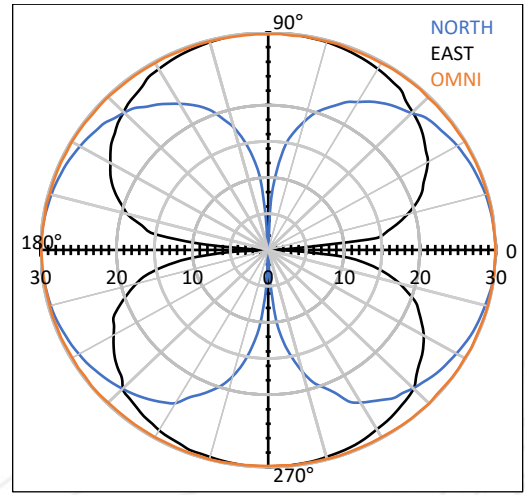


Figure 2: Directivity Plot for M20-600 at 1kHz

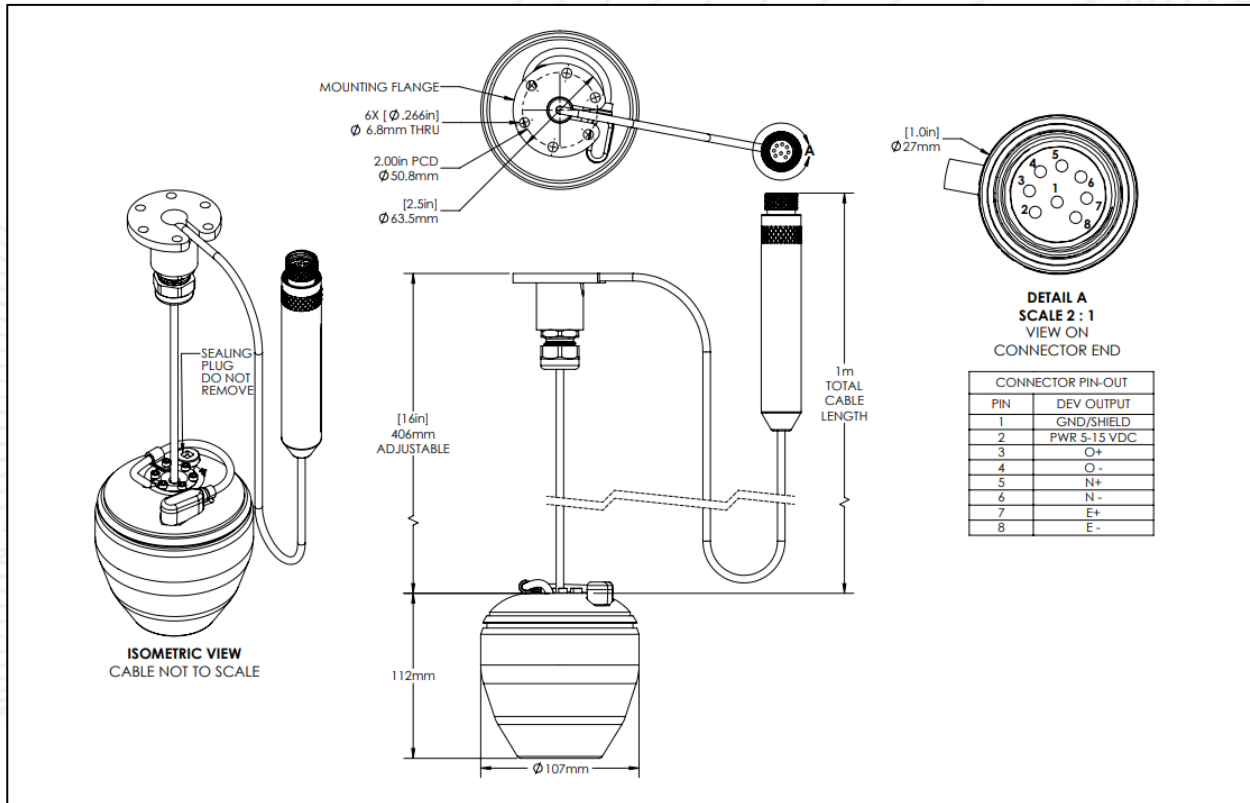


Figure 3: Dimensions of the M20-600 with labeled pin out