



M20-105 SPECIFICATIONS

M20-105 Low-Frequency Particle Motion Sensor

OVERVIEW

The M20-105 is designed for 3-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:

- Three Orthogonal Accelerometer-Based Particle Motion Sensors
- Omnidirectional Acoustic Pressure Sensor
- 3D Orientation Sensor/Compass



CHARACTERISTICS

PHYSICAL:

Maximum Operating Depth	1000 Meters
Mass	3.4 Kg
Apparent Mass in Water	1.0 Kg
Storage Temperatures	-40°C to +70°C
Operating Temperatures	0°C to +35°C

ACOUSTIC:

Operational Frequency Range	2.0 Hz to 3.0 kHz
Power Requirements	5-15 VDC 37.5 mA
Acoustic Output Type	Differential, 8.5 Vpp Max
Orientation/Compass Output	RS422
Receive Sensitivity	Refer to Graph Below
Fluid Compatibility	Water

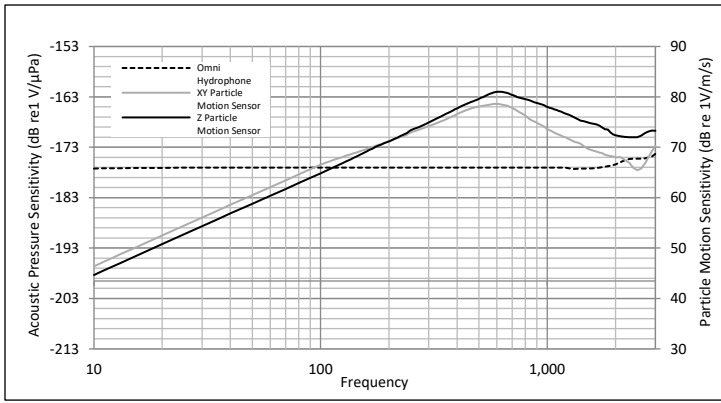


Figure 1: Receive Sensitivity Response for M20-105

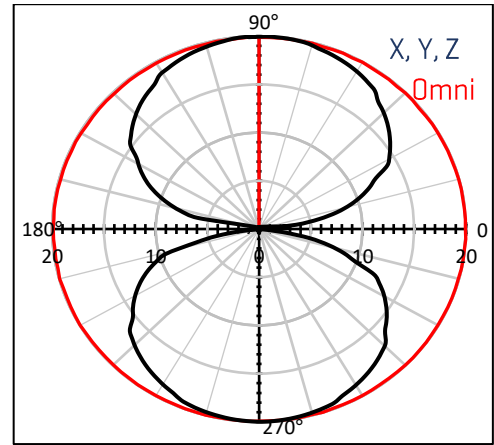


Figure 2: Directivity Plot for M20-105

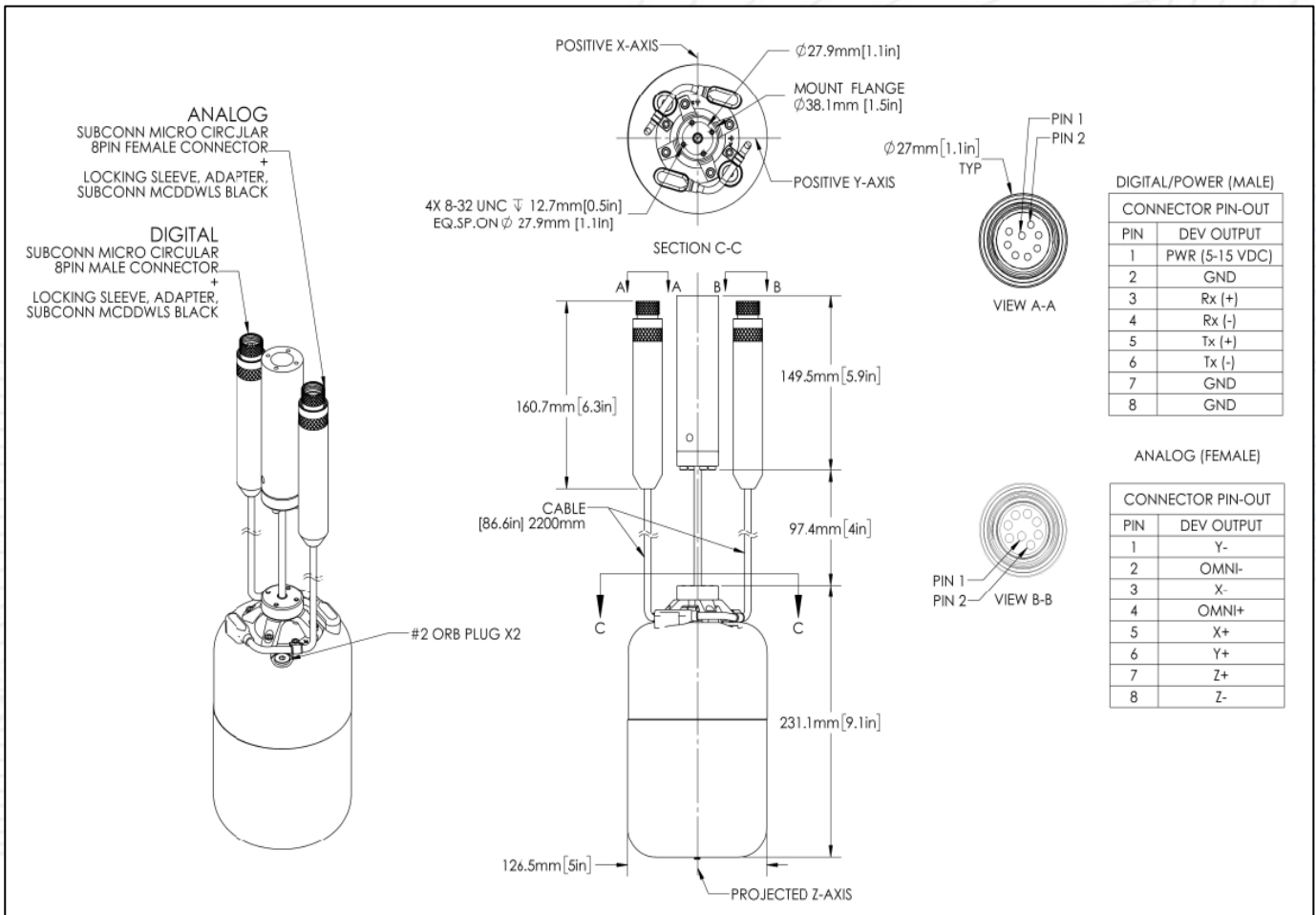


Figure 3: Dimensions of the M20-105 with labeled pin out