

Datasheet

Compatt 5 Max – Ultra Long-Life Transponder



Description

Compatt 5 Max is designed to reduce the total deployment costs associated with vessel time installing reference transponders during both drilling and construction phases of large field developments.

The ultra long battery life enables Compatt 5 Max transponders to be left in situ through out all drilling and construction activities therefore saving vessel installation time which reduces operational cost.

Compatt 5 Max is compatible with all aspects of drilling and construction activity by being compatible with Sonardyne's LUSBL DP position reference systems (including the new Marksman system) already installed on many drilling and construction vessels.

The Wideband signals enable seamless multi-vessel 'SIMOPS' capability ensuring no vessel down time.

They are also compatible with Sonardyne's survey grade USBL and LBL systems, and other USBL systems such as Kongsberg HiPAP®. This allows them to be used as fixed DP and survey references during all survey tasks including metrology, structure deployments, cut to length and umbilical lay.

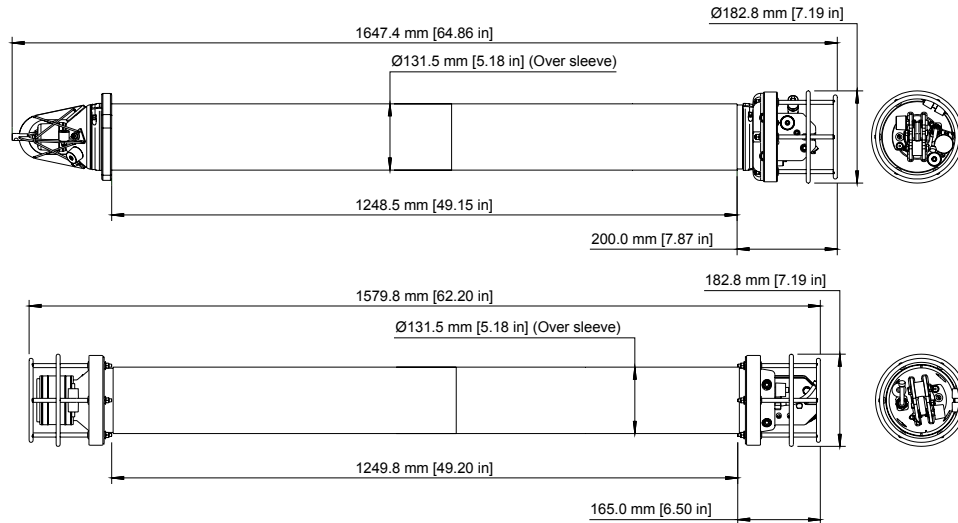
The long battery life is provided by either lithium or alkaline battery packs giving up to eight years listening life and typically greater than two years when in constant use. Even longer battery life is available on request if required. Omni or directional transducers are available along with a range of integrated sensors.

Key features

- Ultra long-life semi-permanent transponder – reduces installation costs and vessel time
- 8 years listening life, 2 years+ fully enabled continuously transmitting
- Sonardyne Wideband LBL, USBL and LUSBL compatible transponder
- Enables full SIMOPS multi-vessel operations
- <50mm accuracy, <20mm precision
- Long Range (>3Km baseline), high power
- Integral sensors available: sound velocity, Paroscientific DigiQuartz pressure sensor, temperature and inclinometers.
- Depth rated to 3,000 or 5,000 metres

Specifications

Compatt 5 Max – Ultra Long-Life Transponder



Feature	Type 8003-000-07	Type 8000-000-07
Depth Rating	3,000 Metres	3,000 Metres
Operating Frequency	MF (18-36kHz)	MF (18-36kHz)
Transducer Beamshape	Directional	Omni-Directional
Transmit Source Level (dB re 1µPa @ 1m)	190-202dB (3 Levels)	185-192dB (3 levels)
Receive Sensitivity (dB re 1µPa)	80-120dB (4 Levels)	90-120dB (4 levels)
Relative Positioning Accuracy*	±5cm	±5cm
Number of Unique Addresses (Wideband)	224	224
Number of Unique Addresses (Tone)	All Sonardyne and Kongsberg	All Sonardyne and Kongsberg
Battery Life (Listening, Disabled)	1660 days Alkaline 3050 days Lithium	1660 days (Alkaline) 3050 days (Lithium)
Battery Life (Lithium, wideband, low Power, 5 Seconds Update)	600+ Days	600+ Days
Safe Working Load (4:1)	250kg	250kg
Dimensions (L x Dia)	1579.8mm x 131.5mm	1647.4mm x 131.5mm
Weight In Air/water	35.8kg/15.2kg	35.8kg/15.2kg

End Cap Sensors and Options

Temperature (±0.1°C)	Standard	Standard
Tilt Switch (±30-45°)	Standard	Standard
Strain Gauge Pressure Sensor (±0.1%)	Standard	Standard
High Precision Strain Gauge (±0.01%) (Presens or Keller)	Optional	Optional
Paroscientific DigiQuartz Pressure Sensor 1350m, 2000m, 3000m (±0.01%)	Optional	Optional
High Accuracy Inclinometer Range: ±90°, Accuracy: ±0.05° over 0 - ±15°; ±0.2° over 0 - ±45°	Optional	Optional
Sound Velocity (±0.06m/s)	Optional	Optional
Release Mechanism	Standard	Standard
Power for External Sensors	Standard	Standard
Gyro Input	Standard	Standard