# Micro Compatt 6
## LBL transponder


Micro Compatt 6 is our smallest ever LBL transponder. Designed for short duration missions such as spoolpiece metrology or dynamic mobile mapping, Micro Compatt 6 is perfect for installation on Inspection-class ROVs where payload is limited.

Its small size means that a Work-class ROV can deploy multiple units in one trip to the seabed contributing to those all-important project time savings. Although not as capable as its bigger brothers, Micro Compatt 6 offers you the same accurate and robust positioning that 6G is known for. Plus, its small form factor reduces offsetting errors when used with a stab and receptacle for improved metrology results. Also being a rechargeable unit, it saves you time and money on replacing depleted primary batteries.

## Specifications

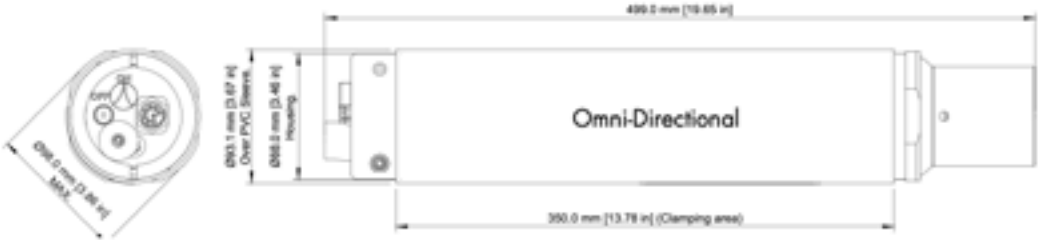
| | |
|---|---|
| **Product** | Micro Compatt 6 LBL transponder |
| **Country of origin** | UK |
| **Manufacturer** | Sonardyne |

## Key features

- Incorporates Sonardyne Wideband®2 acoustic Inavigation and telemetry technologies
- Compatible with both Fusion LBL and Ranger 2 USBL positioning systems
- Robust performance in shallow water and reverberant environments around structures
- Real time diagnostics available on ranges to enable quality control
- More than 500 unique Sonardyne Wideband 1 and 2 addresses
- Sonardyne Wideband 1 and HPR400 navigation compatible
- Internal Pressure sensor
- Internal rechargeable batteryl
- Field proven
- On/off switch

Micro Compatt 6 operates in Sonardyne Wideband®2 or HPR400 series tone modes with a variety of other acoustic systems and transponders. It is also fully compatible with Sonardyne's family of survey quality LBL and USBL navigation systems. Micro Compatt 6 offers significant time saving using faster and more robust Sonardyne Wideband®2 acoustic ranging and telemetry protocols. This makes any system operating with Micro Compatt 6 significantly easier to operate therefore de-risking operations, reducing vessel time and reducing training requirements for offshore personnel.

Sonardyne Wideband 2 advanced signal processing offers improved acoustic performance in challenging conditions, longer range, improved multipath rejection around structures and real-time range diagnostics for quality control. Sonardyne Wideband 2 also reduces the interference to and from adjacent Sonardyne and other acoustic positioning systems. Micro Compatt 6 is available as a omni-directional unit with a 3,000 m depth rating.



## Specifications

| Feature | | Type 8242-3111 |
|---|---|---|
| **Depth rating** | | 3,000 m |
| **Frequency band** | | MF (19–34 kHz) |
| **Transducer beam shape** | | Omni-directional |
| **Source Level (re 1 µPa @ 1 m)** | High Power<br>Low Power | 187 dB<br>181 dB |
| **Tone equivalent energy (TEE)* WBv2+** | High Power<br>Low Power | 193 dB<br>187 dB |
| **Range precision** | | Better than 15 mm |
| **Depth sensor** | | ± 0.5% full scale |
| **Communications interface** | | RS232 (9,600–115,200 baud) |
| **External supply voltage** | | 24 or 48 V DC (± 10%) |
| **External power supply** | Sleep Wideband<br>Wideband Listening<br>Wideband<br>Peak (During Transmission) | <300 mW<br><500 mW<br>6 W<br><50 W |
| **Battery Life (Li-ion 15 V)** | Listening<br>Continuous 5 Sec Interrogation | 30 Days<br>Approx 6 days at low power |
| **Mechanical construction** | | Anodised aluminium alloy and plastics |
| **Operating temperature** | | -5 to 40ºC |
| **Storage Temperature** | | -20 to 55ºC |
| **Dimensions (Diameter x Length)** | | 93 x 499 mm |
| **Weights in Air/Water**** | | 5.1/2.2 kg |