Datasheet Modem 6 Dunker (surface)



The Modem 6 range, based on existing 6G[®] equipment, provides a reliable and cost-effective method of wirelessly transferring underwater sensor data in realtime.

The Modem 6 Dunker is a rugged and easy-to-mount instrument, suitable for transmission of data from a wide range of sensors including: current profilers, temperatures, depth and custom instrumentation.

The Modem 6 Dunker is depth rated to 1,000 m and available in MF and LMF, with omni-directional or directional transducer designed for excellent horizontal and shallow water communication.

The Modem Dunker 6 is powered using a Surface Interface Unit (SIU) and lowered over the side of a vessel.

Modem 6 is a flexible range of instruments, supporting specific communication settings for a variety of link types such as low latency data, fire and forget, acknowledged and large data uploads. A 512 kB modem buffer stores data when a modem link is not active.

All Modem 6 products utilise Sonardyne Wideband[®] signal processing and standard 6G control language. They can be programmed using the supplied software and a serial link or any third-party terminal software.

This technology is field proven and provides unprecedented levels of robustness and flexibility in challenging acoustic environments.

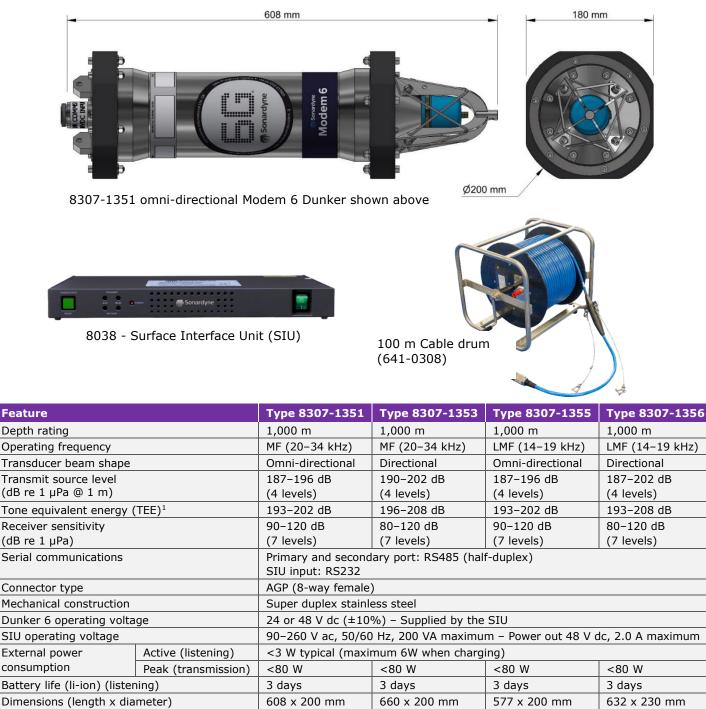
Data transfer rates range from 9,000 down to 200 bps depending on the environment.

Advanced communication protocols and intelligent data packet stitching ensure latency is minimised and data is delivered error free.

Key features

- MF/LMF, omni-directional/directional
- Sonardyne Wideband telemetry provides up to 9,000 bps actual acoustic data rate
- Compatible with all Modem 6
 instruments
- Full two-way Sonardyne Wideband 2 interrogation and reply – Mitigates interference and multi-path issues
- Incorporates field proven communication technology used within critical subsea applications
- More than 500 unique Sonardyne addresses
- Robust performance in noisy and reverberant environments
- Rugged, easy to mount housing
- Capable of achieving ranges in excess of 5 km

Specifications Modem 6 Dunker (surface)



26/17 kg

20/14 kg

24/16 kg

Weight in air/water²



28/17 kg

Specifications subject to change without notice – 01/2025

¹ WBv2+ signals are 4x the duration of Sonardyne tone signals (WBv1 & WBv2 are 2x). The TEE figure shows the operational performance when comparing wideband and tone systems.

² Estimated weights.