Datasheet
Marker 6

The Type 8326 Marker 6 is a low-cost acoustic positioning solution where compact design and deep water are important operational factors.

The Marker 6 enables critical targets such as underwater structures or instrumentation packages to be marked unambiguously and later relocated using a Sonardyne USBL system.

The Marker 6 incorporates Near Field Communications (NFC) allowing for fast setup. Its acoustic address can be selected from >200 unique acoustic identities and can be quickly programmed into each transponder using a suitable NFC enabled handset (including an NFC enabled Android™ handset with the Sonardyne NFC App) or a dedicated HF Radio Frequency Identification (RFID) reader.

The Marker 6 operates in the Medium Frequency (MF) band and is compatible with Sonardyne's Ranger 2 6G® Wideband® USBL systems.

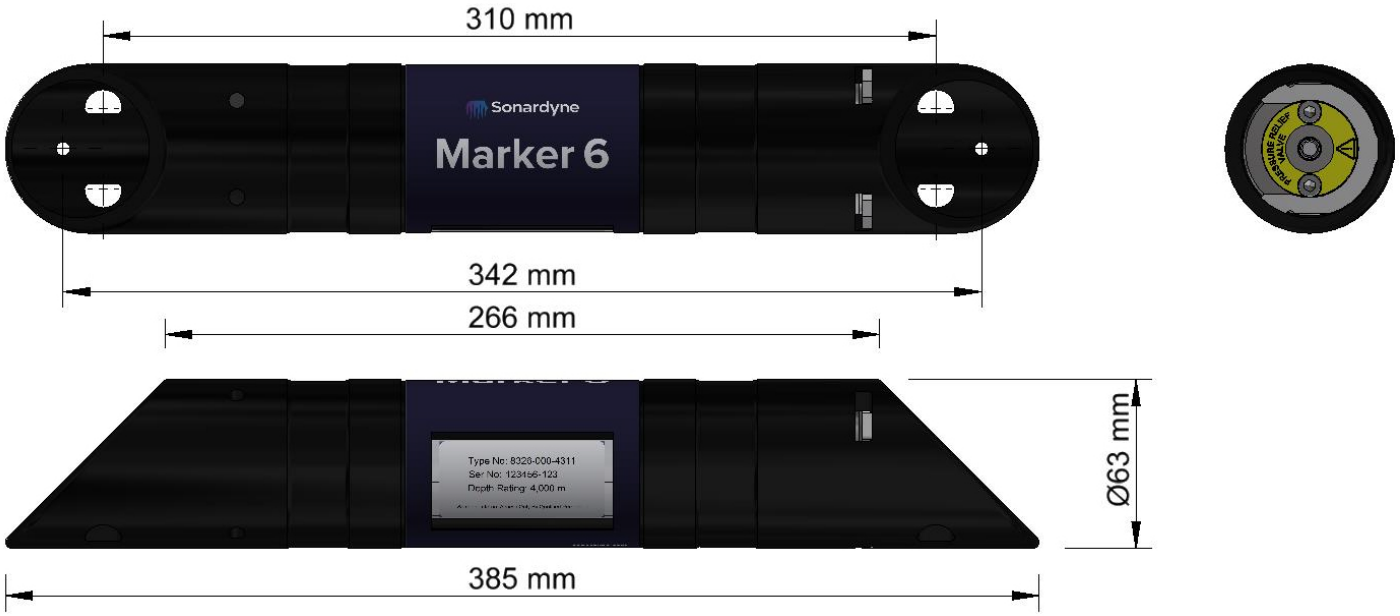
Sonardyne Wideband acoustic signal processing offers improved performance in challenging conditions such as at long range. The signal encoding also reduces the interference both on and by adjacent Sonardyne and other acoustic positioning systems.

The NFC link also provides the ability to enter Marker 6 into a storage mode when not in use, thereby significantly increasing the overall battery endurance.

Key features

- Compact and rugged design
- Depth rated to up to 7,000 m
- Powerful acoustic transmission level
- MF frequency band utilising Sonardyne Wideband 2 protocol
- Compatible with Sonardyne's MF frequency USBL systems
- >200 independent acoustic addresses
- NFC configuration and diagnostics using a suitable NFC enabled handset using Sonardyne NFC App
- Alkaline or lithium battery pack with >9.5 months/>30 months listening life
- Storage mode eliminates power consumption when not in use
- Integrated inclinometer

Specifications
Marker 6



Feature		Type 8326-4311	Type 8326-7511
Depth rating		4,000 m	7,000 m
Operating frequency		MF (20–34 kHz)	MF (20–34 kHz)
Transducer beam shape		Omni-directional ±130º	Omni-directional ±130º
Transmit source level (re 1 µPa @1 m)		187 dB	187 dB
Inclinometer sensor		±5°	±5°
Battery life (continuously listening)	Alkaline	>9.5 months	>9.5 months
	Lithium	>30 months	>30 months
Storage mode (battery disconnect via NFC)	Alkaline	5 years (battery self-discharge limited)	
	Lithium	>10 years (battery self-discharge limited)	
Operating temperature range		-5 to 40°C	-5 to 40°C
Storage temperature range[1]		-20 to 55°C	-20 to 55°C
Mechanical construction	Outer Housing	Polypropylene	Polypropylene
	Inner Housing	Duplex stainless steel	Titanium grade 5
Dimensions (length x diameter)		383.0 x 63.0 mm (15.1 x 2.5”)	383.0 x 63.0 mm (15.1 x 2.5”)
Weight in air/water[2]		2.0/1.3 kg	1.5/0.7 kg

[1] To maximise battery life, the recommended storage temperature range when the instrument contains a battery pack is 10 to 25°C (50 to 77°F).
[2] Estimated weights.