

Datasheet

Wideband Sub-Mini (Remote Transducer Version)



Description

Sonardyne's family of Wideband Sub-Minis (WSMs) are a versatile, high performance range of USBL transponder/ responders designed for positioning ROVs, towfish and other mobile subsea targets.

Compact and rugged, WSMs incorporate the latest Sonardyne Wideband® signal technology which offers superior ranging accuracy, operation in a multi-user, multi-vessel environment and fast USBL position updates.

The Type 8071-000-07 WSM is a 1,000 metre depth rated unit equipped with a cable connected

omni-directional remote transducer.

The remote transducer feature offers users the maximum flexibility when installing the WSM on a vehicle such as an AUV where space is often restricted. The electronics bottle can be mounted internally within the vehicle whilst the transducer can be located externally ensuring clear line of sight with the surface.

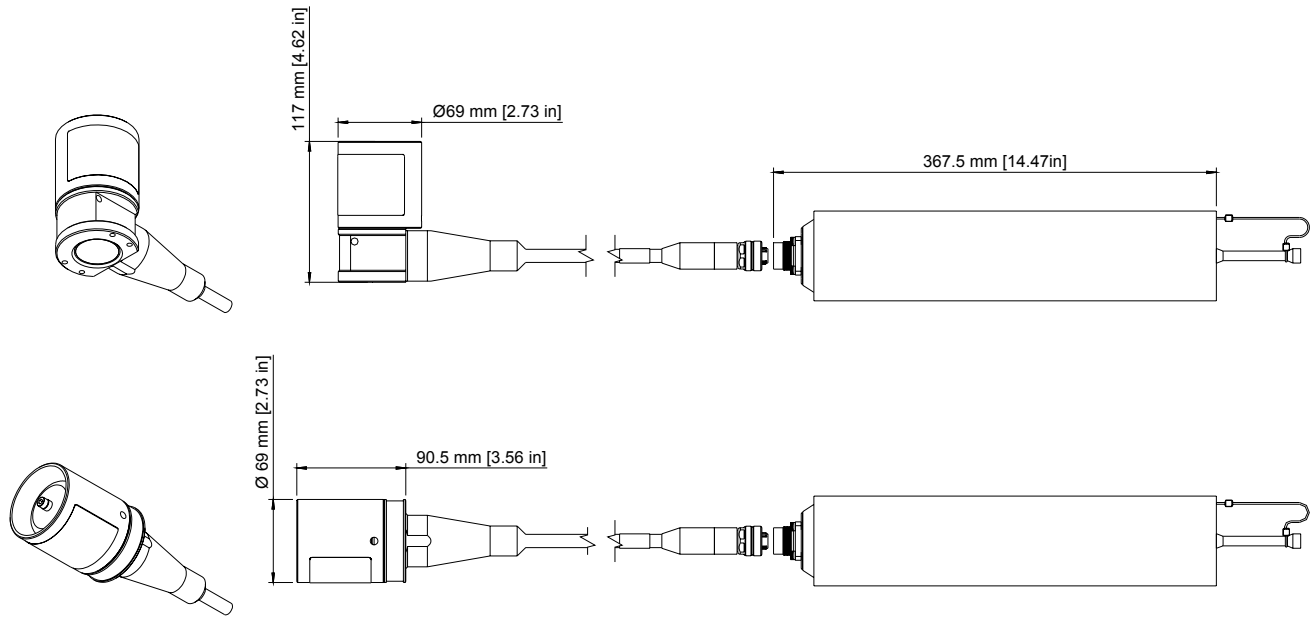
The remote transducers are also compatible with Sonardyne Wideband Mini Transponders and AV-Trak 2 LBL transceivers.

Key Features

- 1,000 metre depth rating
- Choice of straight or right-angled transducer cabling
- Choice of standard cable lengths: 0.6 metres or 3 metres. Custom lengths available on request
- Transponder or Responder operating modes
- External On/Off switch for ease of use and storage
- Long-life NiMH battery
- Compact and rugged design

Specifications

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Feature		Type 8071-000-07
Depth Rating		1,000 Metres
Operating Frequency		MF (19-36kHz)
Operating Channels		All Sonardyne Wideband/Tone HPR 300 & 400 Channels
Remote Transducer Beamshape		Omni-Directional
Remote Transducer Cabling Options		Straight or right angled
Remote Transducer Cable Length		0.6 metres or 3 metres (Custom lengths available)
Transmit Source Level (dB re 1 µPa @ 1m)(26-32kHz)	(External Power)	190dB
	(Battery – High Power)	188dB
	(Battery – Low Power)	185dB
Receive Sensitivity (dB re 1 µPa)	High Gain	<100dB
	Low Gain	<110dB
Power Supply		Long-Life NiMH battery or ext. 24V via ROV's umbilical
Number of Replies (Responder)		Unlimited with External Power
Depth Sensor		Yes
Maximum Update Period		750ms
Quiescent Life		60 Days
Mating Connector		Subconn MCIL5F
Mechanical Construction		Aluminium Alloy, Anodised
WSM Dimensions (LxDia)		367mm (14.5") x 75mm (2.95")
WSM Weight in Air / Water		4.0kg / 2.0kg
Battery Charger		7972-000-04