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Datasheet

Wideband Mini Transponder (Remote Transducer Version)



Description

Sonardyne's existing Wideband Sub-Mini transponder (WSM) is typically interrogated by a responder trigger down the ROVs' umbilical or a narrow band tone signal. In some situations, reverberation or multipath of the tone interrogation can cause interference problems. The new WMT is Sonardyne's first mini-sized transponder, slightly larger than the WSM and providing full two-way Wideband interrogation and reply which completely mitigates interference from other users and to other users

For use on ROVs, the WMT includes responder trigger, an integrated Li-lon battery pack that is charged from the ROV's power supply and full RS232communications enabling channel set up, power, gain etc. to be changed from the surface.

An On/Off switch helps ensure the battery pack is not discharged when not in use. When an umbilical trigger is not available, then full Wideband mode provides excellent USBL performance in a small, lightweight form

New remote transducers, either omni or directional are available for both the WMT and existing WSM range. These make installation on an ROV easier as the transducer can be installed where there is good line-of-sight.

The main body of the transponder, the more expensive part, can then be installed within the ROV frame where it is well protected. Transducers can then be easily replaced if damaged.

Key Features

- Full two-way Sonardyne
 Wideband® interrogation and
 reply mitigates any interference
 and multi-path issues
- Mini size lightweight and small
- Responder mode
- Li-lon battery pack
- Pressure sensor option
- Full RS232 control from the surface
- External On/Off switch
- Choice of standard cable lengths:
 0.6m or 3.0m, custom lengths available on request
- Choice of right angle or straight connector style
- New, versatile and future-proof design

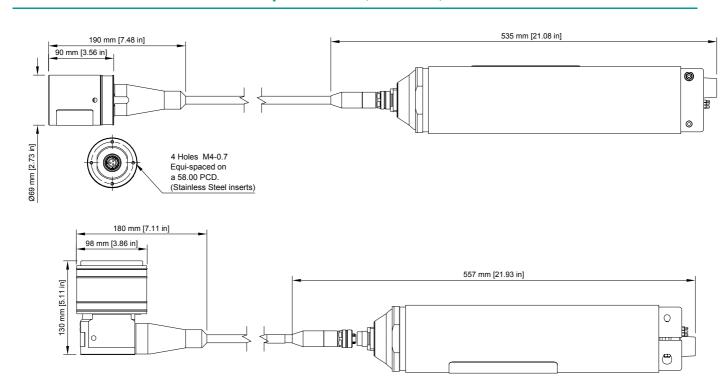


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Specifications

Wideband Mini Transponder (WMT)



System Features		Type 8190-3161	Type 8192-3162
Depth Rating		3,000 Metres	3,000 Metres
Frequency Band		MF (19-36kHz)	MF (19-36kHz)
Transducer beam shape		Omni-Directional ± 130°	Directional ± 40°
Source Level (re 1 µPa @ 1m)	High Power	187 dB	193 dB
	Low Power	181 dB	187 dB
Depth Sensor		± 0.5% full scale	± 0.5% full scale
Communications Interface		RS232 (9,600 – 115,200 baud)	
External Supply Voltage		18-50 Volts DC	18-50 Volts DC
External Power	Sleep	<300mW	<300mW
	Wideband Listening	<500mW	<500mW
	Battery Charging	6W	6W
	Peak (during transmission)	<50W	<50W
Battery Life	Listening	30 days	30 days
(Lithium Ion 15V)	Continuous 5 sec interrogation	Approx 6 days at low power	Approx 6 days at low power
Mechanical Construction		Anodised Aluminium alloy	Anodised Aluminium alloy
		and Plastics	and Plastics
Dimensions		499mm x 93mm	510mm x 98mm
Weights (Air / Water)		5.1 / 2.2Kg	7.0 / 3.5Kg
Options		Remote cable lengths 0.6 Metres or 3.0 Metres	
Remote Transducer		8065-121 Right Angled	8140-008 Right Angled
		8065-120 Straight	

