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## Datasheet Wideband Mini Transponder (WMT)





## 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-ofsight.

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.

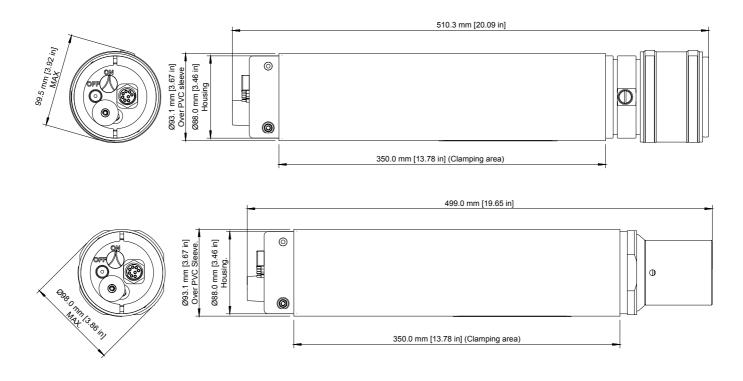
## **Key Features**

- 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
- Optional remote transducer
- Pressure sensor option
- Full RS232 control from the surface
- External On/Off switch
- New, versatile and future-proof design



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## Specifications Wideband Mini Transponder (WMT)



	Туре 8190-3111	Туре 8192-3112
	3,000 Metres	3,000 Metres
	MF (19-36kHz)	MF (19-36kHz)
	Omni-Directional ± 130°	Directional ± 40°
High Power	187 dB	193 dB
Low Power	181 dB	187 dB
	± 0.5% full scale	± 0.5% full scale
	RS232 (9,600 – 115,200 baud)	
	18-50 Volts DC	18-50 Volts DC
Sleep	<300mW	<300mW
Wideband Listening	<500mW	<500mW
Battery Charging	6W	6W
Peak (during transmission)	<50W	<50W
Listening	30 days	30 days
Continuous 5 sec interrogation	Approx 6 days at low power	Approx 6 days at low power
	Anodised Aluminium alloy	Anodised Aluminium alloy
	and Plastics	and Plastics
	499mm x 93mm	510mm x 98mm
	5.1 / 2.2Kg	7.0 / 3.5Kg
	Remote, cable connected transducer (see separate datasheet)	
	Low Power Sleep Wideband Listening Battery Charging Peak (during transmission) Listening	3,000 Metres   MF (19-36kHz)   Omni-Directional ± 130°   High Power 187 dB   Low Power 181 dB   ± 0.5% full scale   RS232 (9,600 – 115,200 ba   18-50 Volts DC   Sleep <300mW

