

## Datasheet

# Wideband Sub-Mini (External Release Versions)



### Description

The Type 8070 Dual Release Wideband Sub-Mini (WSM) is a 4,000 metre rated transponder/responder designed for positioning seabed equipment packages, ROVs, towfish and other subsea targets.

This versatile and compact unit features a high-power directional transducer and incorporates Sonardyne Wideband® Technology which offers superior ranging accuracy, operation in a multi-user, multi-vessel environment and fast USBL position updates.

In addition to supporting new Sonardyne Wideband® signals, all WSMs also support traditional Sonardyne tone and HPR 300 and HiPAP® channels. A link allows the WSM to be configured for use with all of the popular acoustic navigation systems.

The Type 8070 External Release WSM differs from standard WSMs in that it has the ability to activate an external release mechanism in order to recover the WSM and any equipment package that it maybe attached to, back up to the surface.

Two external release options are available; a dual contact closure (XRCC) actuation where the power for the release mechanism is provided externally to the WSM (Version 04) or a dual voltage output (XRVO) where the battery voltage of the WSM is used to drive the release directly (Version 08). The XRVO WSM is compatible with Sonardyne's Type 8083-000-01 release mechanism.

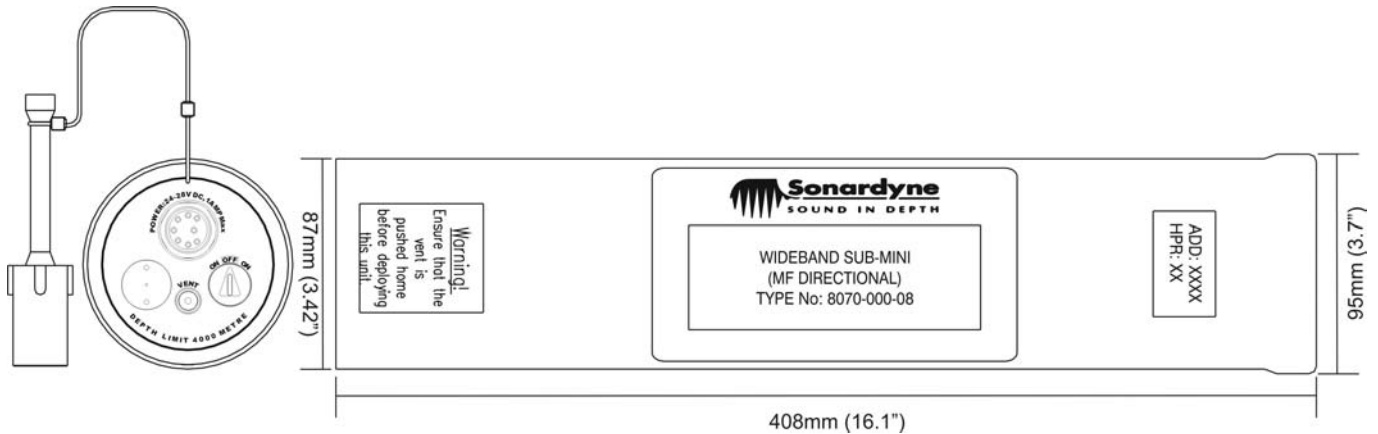
The type of release function required must be specified at the time of ordering. The depth sensor fitted to standard WSMs is not available on the 04 or 08 version units.

### Key Features

- 4,000 metre depth rating
- Incorporates Sonardyne latest Wideband signal technology
- Choice of release options; dual contact closure or dual voltage output
- High power directional transducer with class leading acoustic power output
- Channel selection via serial data port by PC
- Transponder or Responder operating modes
- Long-life NiMH battery
- Compact and rugged design
- Windows based software for test and set-up
- External On/Off switch for ease of use and storage when not in use

# Specifications

## Wideband Sub-Mini (External Release Versions)



Feature	Type 8070-000-04	Type 8070-000-08
Depth Rating	4,000 Metres	4,000 Metres
Operating Frequency	MF (19-36kHz)	MF (19-36kHz)
External Release Type (XR)	Dual Contact Closure (CC) Rated at 0.3A 125V AC, 1A 30V DC Max 125V AC, 60V DC Closure period 29 seconds	Dual Voltage Output (VO) Nominally 18V, 300mA for 29 seconds Motor stall sensing at 600mA reverses O/P for 2 seconds
Operating Channels	All Sonardyne Wideband/Tone HPR 300 & 400 Channels	All Sonardyne Wideband/Tone HPR 300 & 400 Channels
Transducer Beamshape	Directional	Directional
Transmit Source Level (dB re 1µPa @ 1m)(26-32kHz)	(External Power) 202dB (Battery – High Power) 199dB (Battery – Low Power) 196dB	202dB 199dB 196dB
Receive Sensitivity (dB re 1µPa)	High Gain <100dB Low Gain <110dB	<100dB <110dB
Power Supply	Long-Life Ni MH battery or ext. 24V via ROV's umbilical	Long-Life Ni MH battery or ext. 24V via ROV's umbilical
Number of Replies (Responder)	Unlimited with External Power	Unlimited with External Power
Depth Sensor	Not Available	Not Available
Maximum Update Period	750ms	750ms
Quiescent Life	60 Days	60 Days
Mating Connector	Subconn MCIL8M	Subconn MCIL8M
Mechanical Construction	Aluminium Alloy, Anodised	Aluminium Alloy, Anodised
Dimensions (LxDia)	408mm (16.1") x 87mm (3.42")	408mm (16.1") x 87mm (3.42")
Weight in Air / Water	5.0kg / 2.6kg	5.0kg/ 2.6kg
Battery Charger	7972-000-03	7972-000-03



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