

Deep Miniature Marker Transponders

The 4,000 and 12,000 metre rated Type 7835 transponder have been designed for low cost applications where a compact design is an important operational factor but where deep water operation is required. The transponders enable critical targets such as underwater structures, diving bells and instrumentation packages to be marked unambiguously and later relocated using Sonardyne's **Homer-Pro** and **ROV-Homer** range and direction systems.

The unit operates in the HF frequency band from 35-55kHz. External programming of interrogation address and reply frequencies is incorporated.

The transponders operate with Sonardyne's diver hand-held range and direction device Homer-Pro (Type 7797) and ROV-Homer (Type 7832) for use on Remotely Operated Vehicles (ROVs). The diver's/ROV's unit interrogates the transponder to be relocated (specified by the diver or ROV pilot) and from the reply, determines both the range and direction of the transponder. The compact design of the transponders enable normal or emergency relocation of points of interest, underwater distance measurement and small target and diver tracking.



Type 7835-000-01 4,000m Deep
Miniature Marker Beacon



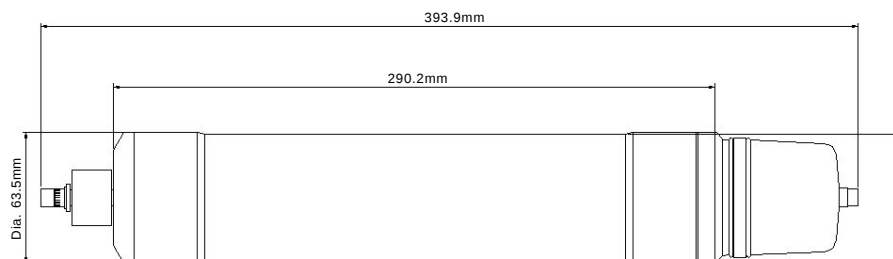
Type 7835-000-05 12,000m Deep
Miniature Marker Beacon

Key Features

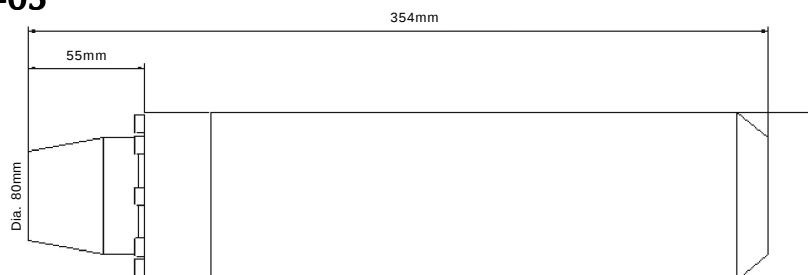
- Use for relocating targets of special interest e.g. tools, diving bells, seabed instrument packages...
- Choice of depth rating; 4,000 metre or 12,000 metre
- Compact and rugged design
- Up to 3600 unique addresses
- Compatible with ROV-Trak, ROV-Homer and Homer Pro relocation systems
- HF frequency band from 35-55kHz
- Long life battery packs give up to 4.5 years listening life

TECHNICAL SPECIFICATION

Type 7835-000-01



Type 7835-000-05



Features	Type 7835-000-01	Type 7835-000-05
Size	Diameter: 64mm(2.5") x Length:353mm(13.9")	Diameter: 80mm(3.15") x Length: 367mm(14.45")
Mechanical Construction	Anodised Aluminium Alloy and Stainless Steel.	Titanium Grade 5
Weight in Air	1.9Kg	5.5Kg
Weight in Water	1.2Kg	3.8Kg
Operating Frequency Range	35-55kHz	35-55kHz
Source Level	>183dB re 1μPa at 1 metre	>183dB re 1μPa at 1 metre
Receive Sensitivity	<110dB re 1μPa	<110dB re 1μPa
Listening Life	2 years Alkaline 3 years Standard Lithium 4.5 years Long Life Lithium	2 years Alkaline 3 years Standard Lithium 4.5 years Long Life Lithium
Switch On	Continuously operating	Continuously operating
Interrogation Mode	Sequential	Sequential
Interrogation Address	Programmable 0 to 9 (1-401 Optional)	Programmable 0 to 9 (1 to 401 Optional)
Reply Frequency	Programmable 1 to 9	Programmable 1 to 9
Maximum Operating Depth	4,000 metres	12,000 metres

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