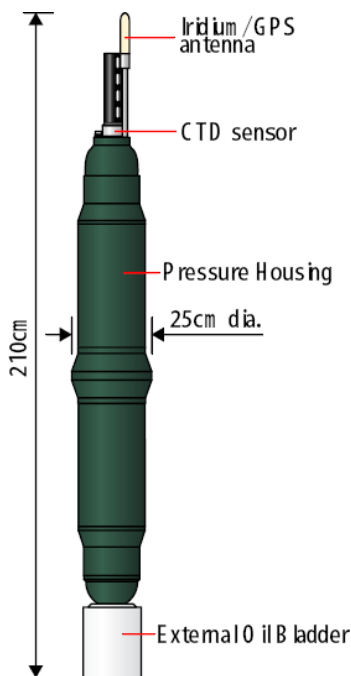


Trident Sensors' Deep Sea Antennas for GPS & Iridium Applications

GPS & Iridium 6,000 m antennas are designed for submersible vehicles, profiling floats & drifters to enable location, recovery & two-way Iridium satellite data communications at the sea surface.



Global GPS & Iridium Communications

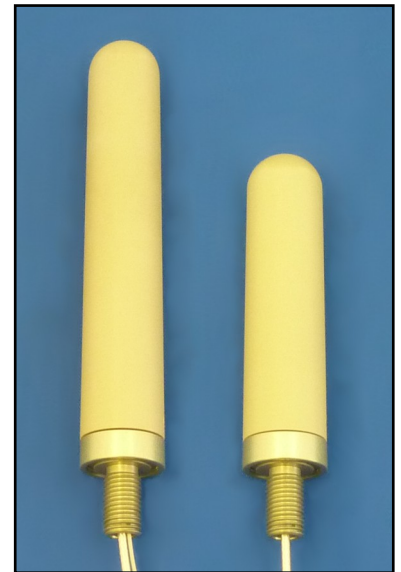


JAMSTEC 4,000 m Deep NINJA Profiling Float with Trident Sensors' Combined Deep Sea Antenna

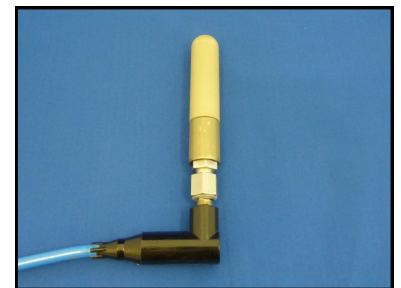
- GPS provides location at the sea surface.
- Iridium element allows real-time, two-way data communications.
- Various cable lengths available with a choice of GPS & Iridium connectors.
- Teledyne D.G. O'Brien 50 Ohm coax connector version for cable mount.
- Pressure rated to 6,000 m.
- Small, lightweight, low drag.

Applications

- AUVs
- ROVs
- Drifters
- Profiling floats
- Manned submersibles
- Location & recovery
- Mission data transmission
- Command & control



150 mm Combined Antenna (left)
105 mm Single Element Antenna (right)



128 mm D.G. O'Brien Single Element Antenna with cable for installation remote from electronics

	Active GPS & Passive Iridium	Active GPS Only	Passive Iridium Only	Passive GPS & Passive Iridium	D.G.O. Active GPS Only	D.G.O. Passive Iridium Only	D.G.O. Passive GPS & Passive Iridium
Length (excl. thread)	150 mm	105 mm	105 mm	105 mm	128 mm	128 mm	128 mm
Diameter (housing)	25 mm	25 mm	25 mm	25 mm	25 mm	25 mm	25 mm
Thread Length	19 mm	19 mm	19 mm	19 mm	12 mm	12 mm	12 mm
Thread	7/16" - 20 UNF	7/16" - 20 UNF	7/16" - 20 UNF	7/16" - 20 UNF	5/8" - 18 UNF	5/8" - 18 UNF	5/8" - 18 UNF
Weight*	~130 g	~90 g	~90 g	~90 g	~135 g	~135 g	~135 g
Face-seal O-ring	BS017 (17.17 id x 1.78 mm section)	BS017 (17.17 id x 1.78 mm section)	BS017 (17.17 id x 1.78 mm section)	BS017 (17.17 id x 1.78 mm section)	N/A	N/A	N/A
Cable*	Hirose U.FL Coax / RG-316	RG-316	Hirose U.FL Coax	RG-316	RG-58, CN-4	RG-58, CN-4	RG-58, CN-4
GPS Connectors*	MCX or SMA Plug			MCX or SMA Plug Single element so requires RF switch	Coax 1131016-101	Coax 1131016-101	Coax 1131016-101 Single element so requires RF switch
Iridium Connectors*	U.FL, MCX or SMA Plug						

* Approximate values as customers' requirements vary. Please specify desired cable length & connectors. Other connectors may be available.

