

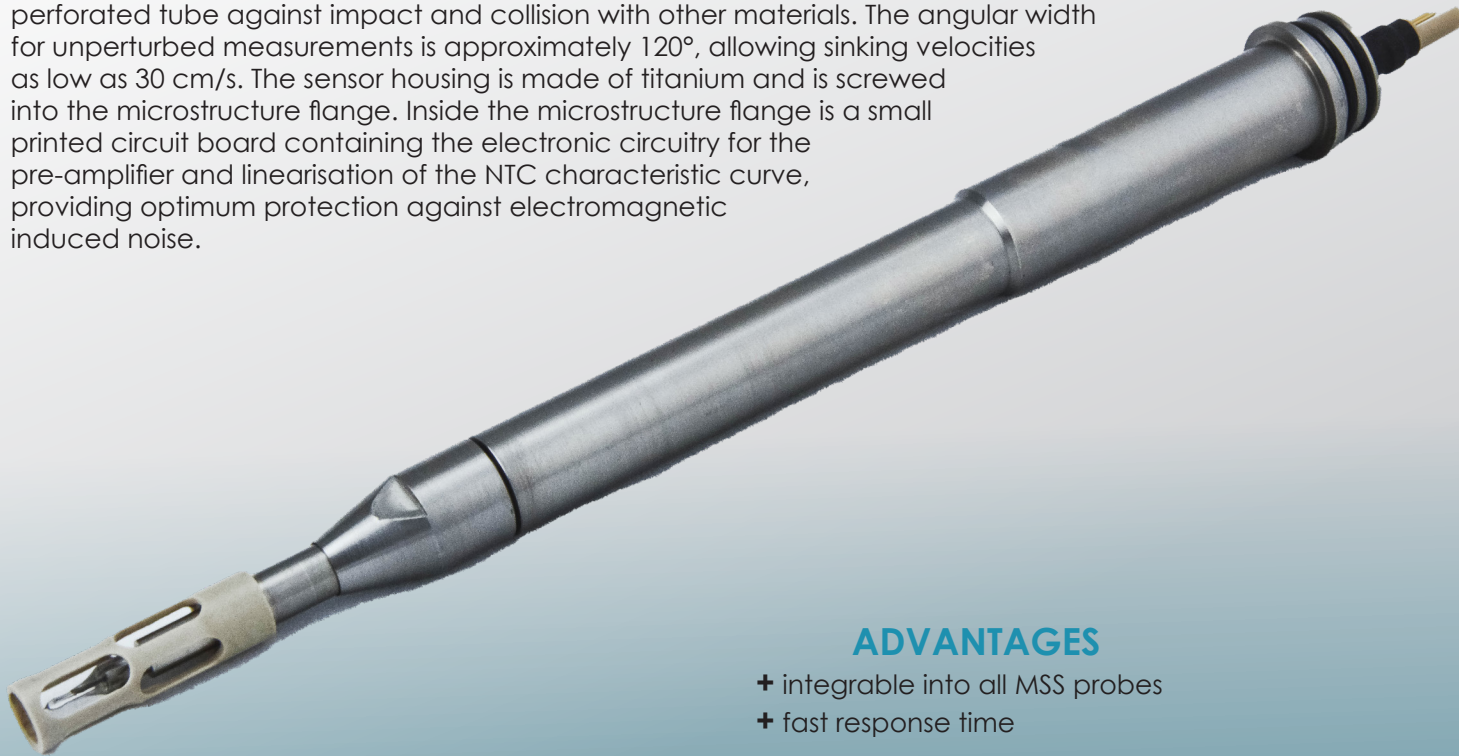
Temperature sensor / SST ISW NTC

max. depth 2,000 m.



Sea & Sun
Technology

The NTC temperature sensor consists of a small diameter glass-coated thermistor bead hermetically sealed to the tips of shock-resistant glass rods. The extremely small size allows a very fast response time of 7 ms at a flow rate of 1 m/s. The thermistor beads are aged for extended periods at a temperature of 300°C, resulting in excellent long term stability and accuracy. The thermistor element is glued into the sensor tip and protected by a perforated tube against impact and collision with other materials. The angular width for unperturbed measurements is approximately 120°, allowing sinking velocities as low as 30 cm/s. The sensor housing is made of titanium and is screwed into the microstructure flange. Inside the microstructure flange is a small printed circuit board containing the electronic circuitry for the pre-amplifier and linearisation of the NTC characteristic curve, providing optimum protection against electromagnetic induced noise.



ADVANTAGES

- + integrable into all MSS probes
- + fast response time

Temperature sensor / SST-ISW NTC

Pressure resistance	2,000 dbar
Measuring range	-2... 32°C
Accuracy	± 0.01°C
Resolution	500 µK (linear), 50 µK (pre-emp. 10 Hz), 5 µK (pre-emp. 100 Hz)
Response time	10 ms
Principle	NTC-resistor with linearized amplifier
Material	Titanium
Overall length	257 mm
Used for	MSS probes



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