

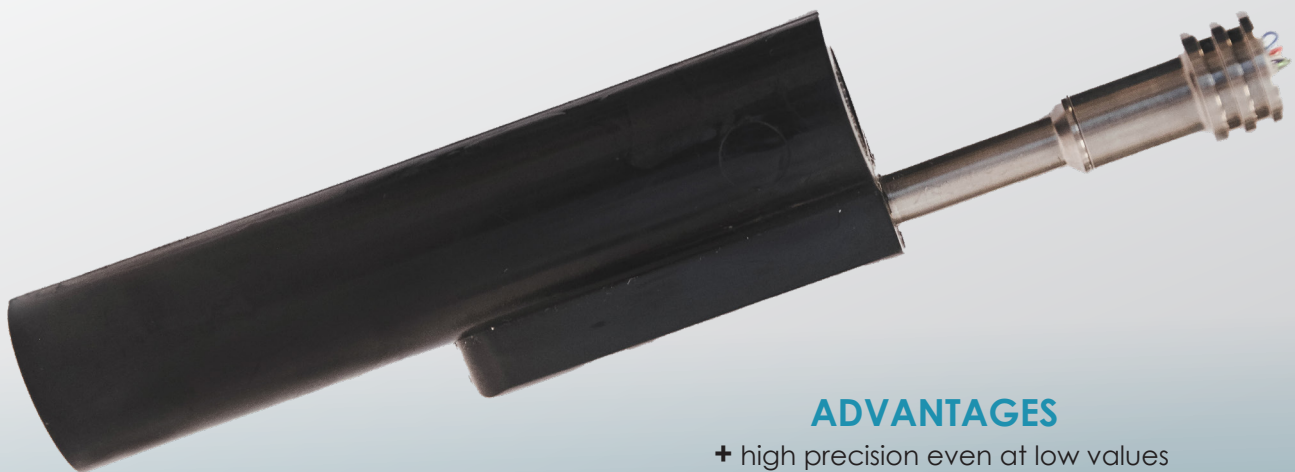
Conductivity sensor

max. depth 6 000 m.



Sea & Sun
Technology

The conductivity sensors consists of 7 electrodes in a cylindrical arrangement. The central electrode is used to impress an alternating current into the water volume. Two pairs of sensing electrodes to the right and left of the central electrode measure the voltage drop across them. The constant potential on the outer electrodes limits the electrical field to the inside of the cylinder and prevents any influence from boundary conditions outside the cell. The conductivity electronic holds the voltage drop across the sensing electrodes on a constant level, while the current is proportional to the actual conductivity value.



ADVANTAGES

- + high precision even at low values
- + easy to clean due to large dimension
- + less influenced by biofouling due to large dimension

Conductivity sensor / 7-pole-cell

Pressure resistance	6 000 dbar
Measuring range	standard: 0 – 70 mS/cm (0 – 7.0 S/m)
Accuracy	± 0.002 mS/cm
Resolution	± 0.005 mS/cm
Response time	150 ms
Principle	7-pole electrode measuring cell
Flange	Ø 20 mm
Dimension cell	16 mm Ø, 110 mm length
Overall length	180 mm
Material	Titanium, 2K polyurethan, quartz glass
Used for	CTD90, CTD90M, CTD115M



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