

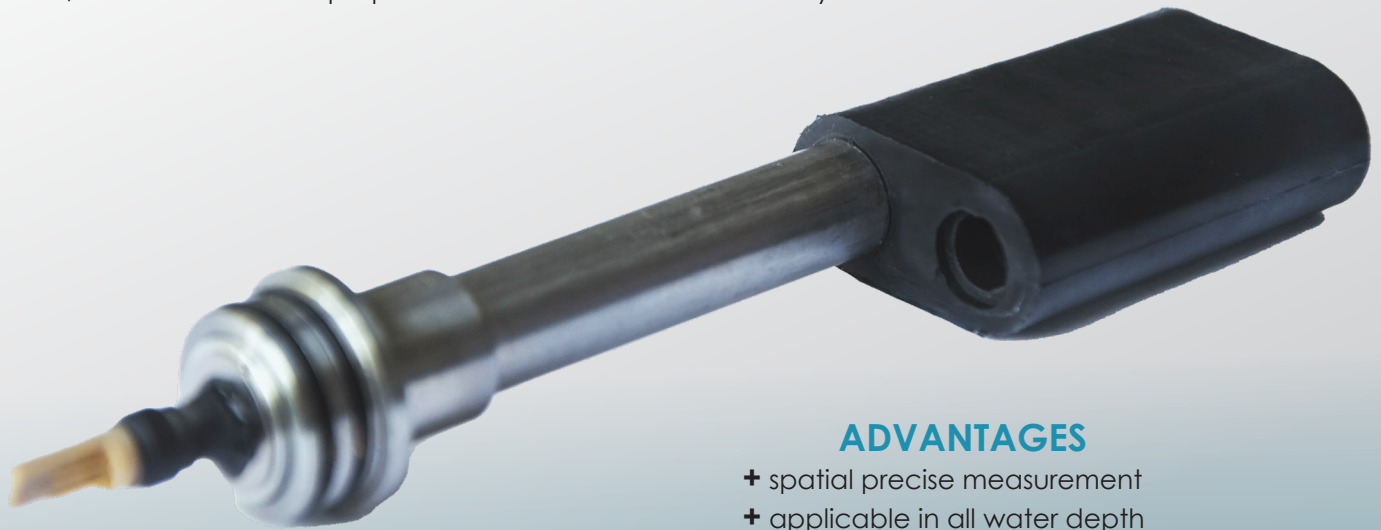
# Conductivity sensor

max. depth 12 000 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

- + spatial precise measurement
- + applicable in all water depth

### Conductivity sensor / 7-pole-cell

Pressure resistance	12 000 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 17 mm
Dimension cell	8 mm Ø, 45 mm length
Overall length	120 mm
Material	Titanium, 2K polyurethan, quartz glass

Used for

CTD48, CTD48M, CTD48c, CTD48Mc, SV48M, CTD60Mc,  
CTD60Mc Ultradeep, CTD75M, MSS Probes



Sea & Sun Technology GmbH  
Arndtstrasse 9-13  
24610 Trappenkamp Germany  
+49 4323 91 09 13  
+49 4323 91 09 15  
sales@sea-sun-tech.com  
www.sea-sun-tech.com