

Conductivity Sensor 5990

Conductivity Sensor 5990 is a compact fully integrated sensor for measuring the electrical conductivity of seawater. Designed to be used as stand-alone sensor using RS-232.

Advantages:

- Easy integration with most loggers or systems
- Direct readout of engineering data
- Rugged and robust with low maintenance needs
 - Output format RS-232
- 3 depth ranges available: 300, 3000 and 6000 meters

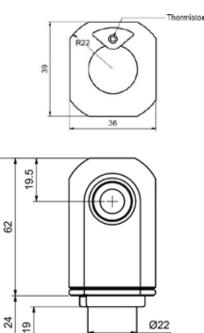
Measuring conductivity together with temperature and depth information, gives a good estimate of the salinity.

Salinity is defined as the concentration of dissolved salts, mainly sodium and chloride ions. Other important properties of seawater are again dependent on the salinity. Among these are the density and the speed of sound.

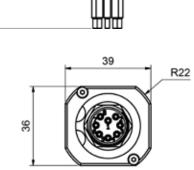
The Conductivity Sensors uses an inductive principle and is the fourth generation from Aanderaa. It offers top accuracy and stability.



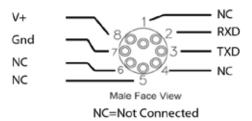
Specifications CONDUCTIVITY SENSOR



122



PIN CONFIGURATION SUBCONN MCBH8



Technical Details	
Conductivity: Range: Resolution: Accuracy ¹⁾ :	0 – 7.5 S/m (0 – 75 mS/cm) 0.0002 S/m (0.002 mS/cm)
5990A Response Time (90%): Typical Drift	±0.0004 S/m (±0.004 mS/cm) ±0.0018 S/m (±0.018 mS/cm) ±0.005 S/m (±0.05 mS/cm) <3 sec ²⁾ <0.0001 S/m per month (0.001 mS/cm per month)
Temperature: Range: Resolution: Accuracy: 5990C 5990A/5990B Response Time (63%):	-5 - 40°C (23 -104°F) ³⁾ 0.001°C (0.0018°F) ±0.003°C (0.0054°F) ±0.05°C (0.032°F) <2.6 sec
Output format: 5990	RS-232
Output Parameters:	Conductivity, Temperature, Salinity, Density and Sound of Speed, Raw data
Sampling interval:	2 sec – 255 min
Supply voltage:	5 to 14VDC
Current drain: Average: Maximum: Quiescent:	0.16 + 48 mA/S where S is sampling interval in seconds 100 mA 0.16 mA
Operating depth: Shallow Water (SW): Intermediate Water (IW): Deep Water (DW):	0-300 m (0-984.3 ft) 0-3000 m (0-9843 ft) 0-6000 m (0-19690 ft)
Electrical connection:	8-pin Subconn MCBH8M
Dimension (WxDxH):	36 x 39 x 122 mm (1.4"x 1.5"x 4.8")
Weight:	280 g (8.466 oz)
Materials:	Epoxy coated titanium
Accessories, not included:	Resistor Set 3719 for functional test Sensor Cable 5335

⁽¹⁾ Calibrated in 208 points

⁽²⁾Dependent on flow through cell bore

⁽³⁾Calibrated range is 0 to 36°C (32-96.8 °F)

Internal pressure never exceeds atmospheric pressure therefore electronics and sensors are unaffected by deployment depth

The above specifications are for the stand-alone sensor only, not the installation it is utilized with.

Specifications subject to change without prior notice.

Aanderaa Data Instruments AS Sanddalsringen 5b P.O. Box 103 Midtun 5843 Bergen, Norway

+47 55 60 48 00

aanderaa.info@xylem.com



