



GO Systemelektronik GmbH
Faluner Weg 1, D-24109 Kiel
+49 431 5 80 80-0, info@go-sys.de

PRODUCTS > SENSORS

ART. NO. 461 2092

BlueEC Inductive Conductivity Sensor



The BlueEC Conductivity Sensor works on basis of the inductive measurement principle and features an integrated temperature measurement. In addition, the digital sensor is capable of simultaneously calculating the salinity and TDS content. The sensor can directly be connected to all controller units of the BlueBox System via the digital Modbus interface.

The following parameters are measured:

1. Conductivity
2. Temperature
3. Temperature compensated conductivity
4. Salinity (calculated according to UNSECO formula)
5. TDS (calculated)

Version: selectable option

Cable length: selectable option

Conductivity:

Measurement principle: inductive cell with compensation

Measurement range: selectable option

Accuracy: 3% FS

Rate: ≥ 1 sec.

Temperature:

Measurement principle: NTC

Measurement range: 0 °C ... 80 °C

Accuracy: $\pm 0,5$ °C

Resolution: 0,1 °C

Rate: < 60 sec.

Material: PVDF
Dimensions: Length approx. 160 mm
Diameter: 30 mm
Interface: Modbus RS485

| Selectable Option | Version | Cable length | Measurement Range |
|-------------------|---------|--------------|-------------------|
|-------------------|---------|--------------|-------------------|

Ausführung

| Pos. | | |
|------|-------------------------------|---|
| 1 | Submersible version (in-situ) | T |
| 2 | Flow-through version (pipe) | R |

Cable length

| Pos. | | |
|------|-------|------|
| 3 | 5 m | -5 |
| 4 | 10 m | -10 |
| 5 | 15 m | -15 |
| 6 | 25 m | -25 |
| 7 | 100 m | -100 |

Measuring range

| Pos. | | |
|------|-----------------------------------|----|
| 8 | 40 - 3000 $\mu\text{S}/\text{cm}$ | -1 |
| 9 | 0 - 120 mS/cm | -2 |

Configuration example Art. no. 461 2092-T-10-1