

Document Information:

Topic	Specification CAPBs
Products	CAPBs sens WQ10 (W ater Q uality)
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History:

Version	Date	Name	Description
1	26.09.17	MT	Initial release
2	01.02.18	MT	Updated specification
3	06.04.18	MT	Updated specification
4	14.01.19	ZG	Updated specification
5	06.02.19	MT	Updated specification
6	26.03.19	MT	Updated storage temperature and warranty information

Technical Data

	WQ10
Systronik Article No.	M090 25 13 10
Measuring Range	
Conductivity:	0 ... 50 000 $\mu\text{S/cm}$
Salinity:	0 ... 25 000 ppm
TDS:	0 ... 50 000 mg/l
pH:	0 ... 14 pH
Temperature:	-5.0 ... +60.0 $^{\circ}\text{C}$
Accuracy	
Conductivity:	$\pm 2 \mu\text{S/cm}$ (up to 199 $\mu\text{S/cm}$) $\pm 5 \mu\text{S/cm}$ (200 to 499 $\mu\text{S/cm}$) $\pm 20 \mu\text{S/cm}$ (500 to 1999 $\mu\text{S/cm}$) $\pm 0.2 \text{ mS/cm}$ (2.00 to 19.99 mS/cm) $\pm 0.5 \text{ mS/cm}$ (20.00 to 50.00 mS/cm)
pH:	$\pm 0.01 \text{ pH}$
Temperature:	$\pm 0.5 \text{ }^{\circ}\text{C}$
Resolution	
Conductivity:	1 $\mu\text{S/cm}$ 0.1 mS/cm
Salinity:	0.1 ppm 0.01 ppt
TDS:	1 mg/l 0.01 g/l
pH:	0.01 pH
Temperature:	0.1 $^{\circ}\text{C}$ 0.1 $^{\circ}\text{F}$
Sensor	
Conductivity:	conductivity electrode
pH:	pH electrode
Temperature:	NTC
Mechanical connections	probe

CAPBs ST: Battery life / rechargeable battery life	45 h / 40 h
Dimensions [mm]	130 x 43 x 36
Weight	56 g
Warranty	No warranty for the EC/pH sensor, because the sensor is wearing material

S6600 CAPBs program**Units**

EC/pH measurement

conductivity in $\mu\text{S}/\text{cm}$, mS/cm ,
 Salinity in ppm, ppt,
 TDS in mg/l, g/l;
 pH in pH
 Temperature in $^{\circ}\text{C}$, $^{\circ}\text{F}$
 German hardness in $^{\circ}\text{dH}$
 Englische Grad in $^{\circ}\text{e}$
 French Grade in $^{\circ}\text{fH}$
 Russian Grad in $^{\circ}\text{rH}$
 CaCO_3 in ppm
 Earth alkali ions in mg/l, mmol/l

Operation temperature0 $^{\circ}\text{C}$... + 40 $^{\circ}\text{C}$ **Medium temperature**+10 $^{\circ}\text{C}$... +40 $^{\circ}\text{C}$ **Storage temperature**0 $^{\circ}\text{C}$... + 50 $^{\circ}\text{C}$ **Housing**

Plastic (PC+ABS)

ColorRAL 5011 (*steel blue*)**Protection Rating**IP40 (*DIN EN IEC 60529*)**Directives & Standards**

2014/30/EU (CE), 2011/65/EG (RoHS), 2012/19/EU (WEEE)

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