

## pH/conductivity sensor CAPBs® sens WQ 10

Part no. M090251310

pH value/determination of conductivity



### Application

Measurement of pH value, electrical conductivity, salinity and temperature

Checking and assessing the drinking water quality

Determination of German hardness and the TDS value (total dissolved solids in mg/l)

Assessing the system water in heating systems

Professional PDF measurement report with the following parameters: total hardness, conductivity and pH value as per new German VDI 2035

### Description

Simultaneous determination of the pH value, the electrical conductivity and the water hardness (German hardness) with a single measurement. Determination of the total hardness is not possible in the case of chemically treated water or water softened by means of ion exchange. In addition, the TDS value (total dissolved solids in the water), salinity and temperature can be output. Thanks to automatic temperature compensation and measuring range switching, the conductivity can be measured with a high measuring accuracy.

### Technical Specifications

#### Dimensions (W x H x D)

sensor module: 43 x 130 x 36 mm

#### Weight

pH/conductivity sensor CAPBs® sens

56 g

#### Measuring range

Conductivity: 0/50000 µS/cm

salinity: 0/25000 ppm

TDS: 0/50000 mg/l

pH value: 0/14 pH

temperature: -5/+60 °C

**Accuracy**

Conductivity:  $\pm 2 \mu\text{S}/\text{cm}$  (0/199  $\mu\text{S}/\text{cm}$ )  
Conductivity:  $\pm 5 \mu\text{S}/\text{cm}$  (200/499  $\mu\text{S}/\text{cm}$ )  
Conductivity:  $\pm 20 \mu\text{S}/\text{cm}$  (500/1999  $\mu\text{S}/\text{cm}$ )  
Conductivity:  $\pm 0.2 \text{ mS}/\text{cm}$  (2/19.99  $\text{mS}/\text{cm}$ )  
Conductivity:  $\pm 0.5 \text{ mS}/\text{cm}$  (20/50  $\text{mS}/\text{cm}$ )  
TDS:  $\pm 10 \text{ mg/l}$   
pH value:  $\pm 0.01 \text{ pH}$   
temperature:  $\pm 0.5 \text{ K}$

**Resolution**

Conductivity:  $1 \mu\text{S}/\text{cm}$   
salinity: 0.1 ppm  
TDS: 1 mg/l  
pH value: 0.01 pH  
temperature: 0.1 °C

**Indication of measured values**

Conductivity:  $\mu\text{S}/\text{cm}$ ,  $\text{mS}/\text{cm}$   
salinity: ppm, ppt  
TDS: mg/l, g/l  
hardness: °d, °e, °f, °rH, ppm, mg/l, mmol/l, mol/m<sup>3</sup>  
pH: pH  
temperature: °C, °F

**Versions**

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-  in-stock items
-  Non-stock items