

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

Resolution

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

Indication of measured values

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

Versions

Part no.

pH/conductivity sensor CAPBs® sens WQ 10		M090251310
------------------------------------------------	-----------------------------------------------------------------------------------	------------

-  in-stock items
-  Non-stock items