

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

Measuring range

Conductivity: 0/50000 $\mu\text{S/cm}$

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 µS/cm
salinity: 0.1 ppm
TDS: 1 mg/l
pH value: 0.01 pH
temperature: 0.1 °C

Indication of measured values

Conductivity: µS/cm, mS/cm
salinity: ppm, ppt
TDS: mg/l, g/l
hardness: °d, °e, °f, °rH, ppm, mg/l, mmol/l, mol/m³
pH: pH
temperature: °C, °F

Versions

		Part no.
pH/conductivity sensor CAPBs® sens WQ 10		M090251310

-  in-stock items
-  Non-stock items