



Multiparameter probe of the MPS PTEC

- Multi-parameter sensor for detecting pressure, temperature and conductivity
- high-quality 4-electrode conductivity measuring cell
- ceramic-capacitive pressure sensor with high measuring accuracy (0.05% FS) and long-term stability (0.1%/year)
- sturdy, sleek Ø 22 mm stainless-steel housing 1.4539 for extreme conditions
- Output: RS485, Option: MOD-BUS, SDI12, 4-20 mA

Parameters:

Water level [cm], [m]

Sensor:

Relative pressure probe

Measurement principle:

capacitive with ceramic measuring cell

Measuring range:

0-2 / 1/4/5/20/40/100 / 200m water column or according to specifications

Measuring accuracy:

± 0.05% FS

Long-term stability:

± 0.1% / year

Parameters:

Water temperature [°C]

Sensor:

NTC30 with polynomial linearisation

Measurement principle:

NTC resistance

Measuring range:

-5 - +50°C

Measuring accuracy:

0.1°C

Pressure Range:

0-20 bar

Parameters:

Conductivity [$\mu\text{S}/\text{cm}$], [mS/cm]

derived parameters: solutes [g/l], salinity, density [g/l]

Sensor:

4-electrode measuring cell

Measuring range:

0-200mS/cm (total)

Automatic measuring range switchover: 0-200 $\mu\text{S}/\text{cm}$; 0,2-2mS/cm; 2-20mS/cm; 20-200mS/cm

Measuring accuracy:

$\pm 1\mu\text{S}/\text{cm}$ for measuring range of 0-200 $\mu\text{S}/\text{cm}$ +/- 0,5% for measuring range of 0,2-200mS

Pressure Range:

0-20 bar

Housing Material:

1.4539 stainless steel

Dimensions:

$\varnothing 22\text{mm}$, length: 320mm

Protection class

Probe: IP68

RS485 interface: IP67 (immersion depth with a desiccant cartridge up to 3 m, depending on the cable length)

Outputs: RS485 (SHWP) standard, MODBUS, SDI12, 4-20mA (Option)

Communications Interface:

RS232

Power supply:

4-15 VDC

Operating temperature:

-5°C - +60°C (non-freezing)

Hanging depth:

up to 1000m

Cable:

screened special measuring cable with a pressure compensation line