Pressure probe DS(T) 22

Reliable water level and temperature measurements

- Capacitive, ceramic, relative-pressure sensor for precise water level measurement in ground and surface water
- Robust and slim design (22 mm diameter) made of stainless steel 1.4404 (standard), 1.4539 (optional)
- High measuring accuracy (0.05 % FS) and long-term stability (0.1 %/year)
- Wide availability of measuring ranges (0-2 m / 0-4 m / 0-5 m / 0-10 m / 0-20 m / 0-30 m / 0-40 m / 0-50 m / 0-70 m / 0-100 m / 0-200 m / 0-250 m / 0-300 m)
- digital (RS 485: SDI-12, Modbus, SHWP) or analog output (4-20 mA)
- Optional: Integrated temperature sensor (type DST 22)

ISO 9001:2015 QZV We are certified Quality is our standard

B22_Drucksonde_DS_T_S1_2_e 12.10.2023

Pressure probe DS(T) 22

Robust, accurate and long-term stability:
The DS (T) 22 fulfills the the requirements of a modern pressure sensor. The pressure membrane is easy to clean and highly resistant. The capacitive measuring principle ensures a high accuracy (0.05 %) and long-term stability (0.1 %/year)

Uncomplicated:
The DS (T) 22 can be connected to all standard data loggers and controllers (PLCs). Either analog (4-20 mA) or digital output signals (RS 485: SHWP, Modbus, SDI-12) can be ordered.

Saltwater-resistant:
For special applications, e.g. in coastal areas, brackish water or landfills, the DS (T) 22 is also available in high-grade stainless steel 1.4539 form.

Last, but not least:
In addition to the measurement of the water level, upon request, water temperature can also be recorded with a high degree of accuracy: 0.1 °C.

Technical data

Parameters:	Water level [cm], [m]
Sensor:	Relative pressure probe
Measurement principle:	Capacitive with ceramic measuring cell
Measuring range:	0-2 m / 0-4 m / 0-5 m / 0-10 m / 0-20 m / 0-30 m / 0-40 m / 0-50 m / 0-70 m / 0-100 m / 0-200 m / 0-250 m / 0-300 m water column
Measuring accuracy digital:	± 0.05 % FS

Measuring accuracy analog:	± 0.1 % FS
Long-term stability:	± 0.1 %/year
Parameters:	Water temperature [°C], (optional)
Sensor:	PT1000 Sensor
Measurement principle:	resistiv
Digital:	-5 °C to +50 °C
Analogue:	-5 °C to +60 °C
Measuring accuracy:	0.1 °C

Housing:	**Material:**	V4A standard 1.4404 stainless steel ,or high grade 1.4539 stainless steel (optional)
	Dimensions:	Ø 22 mm x 182 mm
	Protection class:	IP 68
Outputs:	**Digital:**	RS 485: SHWP, Modbus, SDI-12
	Analogue:	0-1 V, 4-20 mA
Power supply:	**Digital:**	6 … 30 VDC
	Analogue:	**DS-22:** 0-20 mA: 6 … 30 VDC, 4-20 mA: 7 … 30 VDC, 0-1 V: 9 … 30 VDC **DST-22:** 4-20 mA: 7 … 30 VDC, 0-1 V: 9 … 30 VDC
Connection:	Either with plug or open cable ends	
Operating temperature:	-5 °C to +60 °C (non-freezing)	
Cable:	Reinforced measuring cable with a pressure compensation line	

The right is reserved to change or amend the foregoing technical specification without prior notic

Contakt:
SEBA Hydrometrie GmbH & Co. KG • Gewerbestraße 61 A • 87600 Kaufbeuren • Germany
Telefon: +49 (0) 8341 96 48 - 0 • E-Mail: info@seba.de • Web: www.seba.de