



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 (AISI316L) (standard), 1.4539 (AISI904L) (optional)
- Drying element against humidity in the venting tube
- 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) or analog output (4-20 mA)
- Optional: Integrated temperature sensor (type DST 22)



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Robust, accurate and long-term stability:

The DS (T) 22 fulfills 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).

The pressure sensor is resistant to overpressure 2-10 times (depending on measurement range).

Uncomplicated:

The DS (T) 22 can be connected to all standard data loggers and controllers (PLCs). Either analog (0/4-20 mA, 0-1 V) 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 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

Parameter:	Water level [mm], [cm], [m]	Measuring accuracy analog:	± 0.1 % FS
Sensor:	Relative pressure probe	Long-term stability:	± 0.1 %/year
Measurement principle:	Capacitive with ceramic measuring cell	Parameter:	Water temperature [°C], (optional)
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	Sensor:	PT1000 Sensor
Measuring accuracy digital:	± 0.05 % FS	Measurement principle:	resistiv
Measuring resolution:	1 mm	Digital:	-10 °C to +50 °C
		Analogue:	-10 °C to +60 °C
		Measuring accuracy:	0.1 °C
		Measuring resolution:	0.1°C
Housing:	Material:	V4A standard 1.4404 (AISI316L) stainless steel ,or high grade 1.4539 (AISI904L) stainless steel (optional)	
	Dimensions:	Ø 22 mm x 182 mm	
	Protection class:	IP 68 (500m)	
Outputs:	Digital:	SDI-12, MODBUS, RS 485 (two-wire, half duplex, ASCII transmission speed of 4800...19200 b/s)	
	Analogue:	0-1 V, 4-20 mA	
Power supply:	7-30 VDC		
Connection:	Either with plug or open cable ends		
Operating temperature:	-25 °C to +60 °C (non-freezing)		
Cable:	Reinforced measuring cable (PUR) with a pressure compensation line		

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

Contact:

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