



MPS-TEC Multilevel-Conductivity-Chain

High-resolution monitoring of saltwater intrusion dynamics

- Robust, maintenance-free multiparameter probes (MPS) made of 1.4539 stainless steel
- Multi-level measurements of temperature (T) and electrical conductivity (EC)
- Slim design (Ø 22 mm) for observation wells down to 1" diameter
- Available with up to 7 MPS-TEC segments and individual cable lengths
- Compatible with all SEBA data logger (SlimlogCom, UnilogCom ...)
- Upgrade with pressure sensor for water level measurements

Technical data

Device:	MPS-TEC Segment
Parameter water temperature [°C]	
Sensor:	NTC 30 with polynomial linearization
Measuring principle:	NTC-resistance
Measurement range:	-5 ... +50 °C
Accuracy:	0,1 °C
Pressure range:	0-30 bar
Parameter Conductivity [μS/cm], [mS/cm]	
Derived Parameter:	salinity, density [g/l], total dissolved solids (TDS) [g/l]
Sensor:	4-electrode measuring cell
Measurement range:	0-200 mS/cm (total)
Accuracy:	± 1 μS/cm at measuring range 0-200 μS/cm +/- 0,5 % at measuring range 0,2-200 mS
Pressure range:	0-30 bar
Housing TEC-Segments:	
Material:	1.4539 Stainless steel (salt water resistant)
Dimensions:	Ø 22 mm, length: 320 mm
Protection class:	Probe: IP 68 RS 485-Interface: IP 67
Interface:	RS 485 (SHWP) standard
Power supply:	4-15 VDC
Operating temperature:	-5 °C ... +50 °C (not freezing)
Mounting depths:	Up to 1000 m
Cable:	screened special measuring cable
Accessories:	Strain-relief segment

SEBA data logger
type SlimLogCom



MPS-TEC
(temperature,
conductivity)

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Perfect for the high-resolution spatiotemporal monitoring of saltwater intrusion dynamics in groundwater

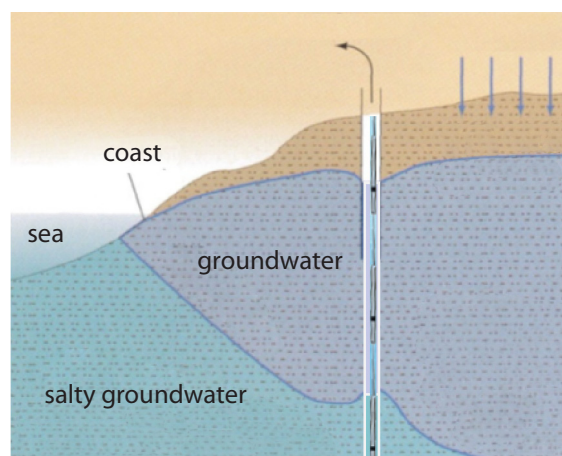


Figure: Example of a triple MPS-TEC
Multilevel-Conductivity-Chain

Figure: Example of a MPS-TEC Multilevel-Conductivity-Chain for monitoring
the saltwater intrusion in groundwater along the coast
(Modified figure of Press & Siever 2001)

SEBA data logger:	See brochure SlimlogCom
	See brochure UnilogCom
	See brochure LogCom/FlashCom

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

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