



GEOsniff® TP MEASUREMENT PIG

For manual or automatic insertion into the geothermal probe and measuring of a high-precision temperature-depth profile as well as the absolute depth of an geothermal probe. Charging the integrated energy store, transferring data and configuration is done with the VALIDATION BOX or with the GEOsniff® AUTO BYPASS for continuous operation.

MECHANICALLY

Design	spherical / 20 mm
Material housing parts	anodized aluminum / plastic / stainless steel
Temperature resistance	-25 ... +70 °C
Pressure resistance	45 bar
Density	1.7 kg/dm ³

ELECTRICALLY

Energy storage	integrated
Energy supply and data transmission	wireless
Charging duration	7-20 min, depending on state of charge

SENSORS

Pressure measuring ranges	30 bar (optional 14 bar)
Pressure sensor absolute deviation	+/- 300 mbar (10 bar, 0 ... 40 °C)
Pressure sensor resolution	1.0 mbar
Temperature sensor measuring ranges	-10 ... 50 °C (optional up to 70 °C)
Temperature sensor deviation	0,05 K (in calibration range -10 ... 30 °C)
Temperature sensor resolution (-20 ... 60 °C)	< 0.01 K

MEASUREMENT DRIVE

Measuring frequency	1/60-32 1/s
Feasible single measurments	3200 (for data and energy storage)
Measuring duration with 32 1/s	102 s
Measuring duration with 1/30s	27 h
Duration of data transmission (3200 Points)	approximately 16 min
Lowering speed (geothermal probe, water)	approximately 6.5 m/min (U32), approximately 15.0 m/min (U40)

Unit for wireless data and energy transmission



Pressure sensor

Temperature sensor

Rugged water-proof case

USB connection for energy supply data connection

Loading and readout station for GEOsniff® MEASUREMENT PIG

Integrated battery for wireless operation

Bluetooth 4.0, App for connection to Android and iOS smartphones



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