

ProTherma™ PTS - Gamma Ray/CCL (SRO or Memory)



Product Reference: 18800-100

The ProTherma PTS-Gamma Ray/CCL is a subsurface high temperature tool that consists of five PL sensors — Flow, Pressure, Temperature, Gamma Ray and CCL.

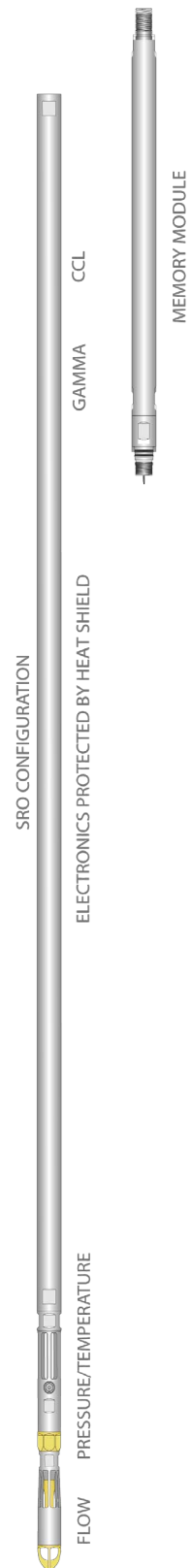
The tool can operate downhole in real-time for up to 6 hours at 300C or at 4 hours at 350C in memory. Accurate depth and geologic correlation is achieved using an integral scintillation based gamma ray detector and casing collar locator (CCL). The ProTherma PTS-GR/CCL provides accurate geologic and tubing/casing depth correlation for pressure, temperature and flow measurements made with the tool.

The electronics section of the tool is encased in a pressure housing, which thermally protects it from the high external temperatures. The pressure transducer senses wellbore pressure through a capillary tube, while the RTD sensor remains exposed to the wellbore to enable for fast and accurate responses to temperature variations in the well bore. Interchangeable flow meters and impellers allow you to choose what is best suited for the flow conditions.

All materials meet NACE MRO175 specifications for corrosive wellbore media.

SPECIFICATIONS - PROTHERMA™ PTS - GAMMA RAY / CCL (SRO or MEMORY)

Outside Diameter (O.D.)	1.83"	4.6 cm	Flowmeter/Spinner (Continuous):	
Memory:			In-line Spinners - O.D.	1 11/16", 2 1/8", or 3"
Length	108"	274.3 cm	Fullbore Spinner	Optional
Weight	65 lbs	29.5 kg	Sensors	Reed switch/Magnetic
SRO:			Resolution	1 RPS
Length	88"	223.5 cm	Data	Flow with directional sensing
Weight	60 lbs	27.2 kg	Flow Rate	RPM = 85 (Min)/18,000 (Max)
Operating Environment:			Mechanical:	
Maximum Pressure	18,000 psi	124.1 MPa	Top Connection	Standard "GO" type (SRO) 1 1/4"-8" (Memory)
Pressure Sensor Type	Quartz (Quartzdyne)		Acquisition Systems:	Kuster Ktouch Warrior™ - SDS
Accuracy	0.02% F.S.		Miscellaneous:	
Resolution	0.00006% F.S.		No. of Data Points	1,400,000 (Memory)
Maximum Temperature	4hrs/662 °F	4hrs/ 350 °C	Minimum Sample Rate	1 sec.
	6hrs/572 °F	6hrs/300 °C	Interface	USB
Accuracy	0.15% F.S.		Battery	Alkaline - optional Lithium
Resolution	0.002% F.S.			
Response Time	1.5 sec./50 °F	1.5 sec./10 °C		
Gamma Ray/CCL:				
Detector Type	Scintillation			



RELATED PRODUCTS

- 18600-600 K10 Depth Unit
- 18600-XXX Battery Pack
- 18600-XXX Carrying Case
- 18600-XXX K10 Interface/Software
- 18600-XXX Field Tool Kit

Note: Description and specifications are subject to change without notice.

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