

HPHT Short-Stack PLT Series

Production Logging Short-Stack (PLS23)

DESCRIPTION

Production Logging Short-Stack module consists of the following sensors:

- **Fluid Density** by measuring inertial response of a vibrating tuning fork
- **Temperature** by measuring the resistance of the sensor
- **Capacitance** by measuring the dielectric constant of borehole fluid
- **Quartz pressure** by measuring the quartz frequencies
- **Inline flowmeter** by measuring the rotations of the spinner
- **Resistivity** by measuring the resistance of the sensors
- **Flowmeter Electronics** to allow Full-bore Spinner and Continuous Spinner to be connected to the module

SPECIFICATIONS

Tool-bus Protocol		GWMGDT-bus
Diameter		1-13/16" or 46 mm
Temperature Rating		230° C or 450° F for 6 hours 220° C or 430° F for 8 hours
Pressure Rating		20,000 psi
Fluid Density	Measurement Range	Up to 1.3 gr/cc
	Accuracy	0.03 gr/cc
	Resolution	0.01 gr/cc
	Response Time	< 1 sec
Temperature	Measurement Range	Up to 350° F
	Accuracy	+/- 1° C
	Resolution	0.01° C or 0.018° F
	Response Time	< 0.5 sec
Capacitance Water Holdup	Measurement Range	Up to 45%
	Accuracy	1%
	Resolution	0.1%
Quartz Pressure	Accuracy	0.02% FS
	Resolution	0.008 psi
	Response Time	< 1 sec
	Ageing or Drift	3 psi / year
Inline Flowmeter	Threshold	5 to 7 ft / min
	Flow Output	8 to 10 pulses / rev
Resistivity Water Holdup	Water Hod-up Accuracy	5%

