

# 3 5/8" Static Spontaneous Potential Tool

Product Reference: 050-PTSS-0000

The Static Spontaneous Potential Tool (SSPT) is designed to give the user a more accurate measurement of the static SP than can be obtained by using the normal SP and corrections.

The SP curve, as measured, is adversely affected by factors such as the mud resistivity, bed thickness and bed resistivity. The static SP is defined as the maximum SP that could be obtained for a given shale and waters of two different salinities, given an infinite mud resistivity.

The SSPT utilizes an electrode array to introduce currents in the mud column that effectively null the SP current, making the mud resistivity appear to be infinite.

This allows the measurement of SSP under real-time conditions. State of the art, self-calibrating DSP based electronics performs all measurement and control functions, eliminating the need for additional up-hole circuitry, calibrations or downlink telemetry. Data is transmitted to the surface via our proven PTX telemetry at a rate of 20 times per second.

The SSPT is designed to operate in a stack with an open-hole gamma module, a CNL (Compensated Neutron Log), a HRDLL (High Resolution Dual Laterolog), a MSFL (Micro Spherically Focused Laterolog) and any of our existing telemetry based tools.



## SPECIFICATIONS – 3 5/8" STATIC SPONTANEOUS POTENTIAL TOOL

<b>Diameter</b>	3 5/8"	7.6 cm	<b>Measurement Range:</b>	
<b>Length</b>	140 "	3.6 m	<b>Vertical Resolution</b>	12" 30cm
<b>Weight</b>	110 lb.	50 kg	<b>SP Measurement</b>	-1000 – 1000 mV
<b>Operating Voltage</b>	100 VDC			
<b>Operating Current</b>	60mA. DC			

### Limitations:

<b>Maximum Pressure</b>	20,000 psi	137.8 MPa
<b>Maximum Temperature</b>	350°F	177°C

## RELATED PRODUCTS

- 050-PTSS-0010 Text Box W/Cables

At Probe, we design, manufacture and service specialized modular downhole tools and systems. Our tools are used in formation evaluation, well integrity assessment and well productivity determination across the global energy industry.