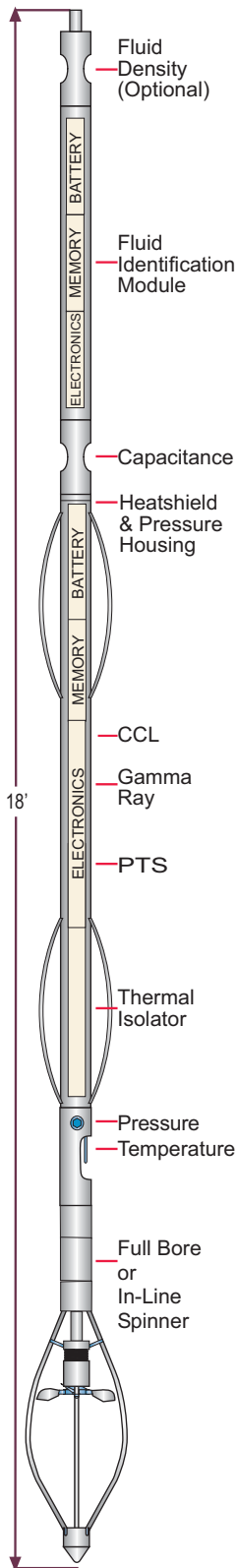


# High-Temperature Memory Production Logging (MPLT)



## Small 1.44" Diameter

### High Temperature Production Logging At Its Best

Scientific Production Services's High Temperature Memory Production Logging Tool (MPLT) 1.44" (36.5mm) diameter 575°F (300°C) sets the memory production and geothermal logging performance standard. This high-temperature modular system packages the following optimized sensors:

- Casing Collar Locator (CCL)
- Gamma Ray
- Pressure
- Temperature
- Spinner
- Capacitance
- Nuclear Fluid Density

### Compact Size Equals Increased Performance

The compact MPLT is 1.44 inches in diameter by 18 feet long. Its reduced cross-section has less tool weight and less affect on flowing well characteristics (less choking effect) than larger diameter systems. MPLT's memory logging features have distinct advantages over conventional wireline logging.

### Multi-Faceted Applications

- Has full production logging capabilities
- Establishes flow profiles
- Establishes fluid types and mixes
- Detects leaks
- Identifies production problems
- Can be used with any downhole conveyance system
- Is highly reliable in slickline and coiled tubing applications
- Measures downhole steam quality with sophisticated pressure, temperature, spinner, and nuclear fluid density sensors
- Measures downhole mass flow rate with high performance spinner and nuclear fluid density sensors

## ADVANTAGES

- Pressure control is simplified in slickline high-pressure (gas) well operations.
- Short tool strings permit use in height-restricted areas (offshore).
- Less weight is required with slickline resulting in less lubricator, easier rig up, and lower costs.
- The need for high temperature logging cables is eliminated, thus eliminating those costs.
- Horizontal wells are easily logged using any standard coiled tubing unit since no expensive wireline is needed.
- Has proven, successful reliability in wells worldwide.
- Software provides onsite data presentation and interpretation.
- Gathers data easily and cost-effectively.

### Technical Specifications

Temperature Rating: Accuracy: Resolution:	575°F (300°C) ± 1.8°F (1°C) 0.018°F (.03°C)
Pressure Accuracy: Resolution:	± 3.0 psi (20.7 kPa) 0.01 psi (0.07 kPa)
Memory:	Non-volatile, 2Mb/8Mb
Spinner:	Minimum 0.1 rps with direction
Gamma Ray:	Scint - Na I (T1) 5/8" diameter x 3" long
Casing Collar Locator (CCL):	50 samples per second
Nuclear Fluid Density Accuracy: Resolution:	0.003 g/cc ± 0.001 g/cc
Capacitance Gas: Oil: Water:	59 kHz 55 kHz 29 kHz
Outer Diameter:	1.44 inches (36.5 millimeters)
Length:	18 feet (5.48 meters)
Weight:	97 pounds (44 kilograms)

