

# Crescent MWD Systems



## MWD & EM-MWD Systems

- **Reliable and Proven**
- **Long Downhole Life**
- **Positive-Pulse & Electromagnetic**
- **Fully Retrievable**
- **Gamma Compatible**

## Tool Length

- **23-37 ft depending on tool set up**
- **1.88 in diameter**

<b>Flow Ranges</b>	75-165 gpm, 3.5 in. O.D. collar 100-300 gpm, 4.75 in. O.D. collar 150-600 gpm, 6.5 in. O.D. collar 400-1200 gpm, 8.25 in. O.D. collar
<b>Pressure Drop</b>	100 psi @ 400 gpm
<b>Data Transmission</b>	Positive-Pulse or Electromagnetic
<b>Electrical Power / Operating Time</b>	Lithium battery operates to 280° F. Will operate for 200-400 hours per battery pack depending on operating parameters
<b>Maximum Hydrostatic Pressure</b>	Up to 20,000 PSI
<b>Maximum Lateral Displacement Error</b>	2.6 ft/100 ft or a conical uncertainty of +/- 0.15° maximum
<b>Sensor Accuracy</b>	+/- 0.1° Inclination +/- 0.5° Toolface +/- 0.1° Dip Angle
<b>Tool Components</b>	Helix / Lower End Transmitter Gamma (optional) Battery Pack #1 & 2 Directional Sensor / Electronics Rubber Finned centralizers between all components
<b>Gamma Specifications</b>	Accuracy, +/- 5% to 300° F Resolution 6.8" Sensitivity 1.7 counts per API Output 5V to 0V, 2 microsecond
<b>Maximum Lost-Circulation Material</b>	5-20 ppb concentration, any size, pre-mixed and added uniformly. Cottonseed hulls cause problems. Nut plug concentrations are much less