**eQube™ Ultra High Impedance Capacitive Ground Sensors**

- **eQube™ Functions on Surface with No Ground Prep**
  - No burial, no ground modification
- **Enables Surveys Over Highly Resistive Ground:**
  - Ultra Dry, Frozen, Desert, Resistive Rock
- **Sensing Plate Does Not React Chemically With the Ground:**
  - No effect of ground water content, ground temperature
  - No degradation of contact over time
- **Active Cable Drivers and Triple Twisted Pair Cable Reduce Noise Pickup in Signal Lines and Coupling to the Ground**
- **6-Channel GPS Synchronizes Data Acquisition System,** with Wireless Output and Integrated Power

**eQube™ Capacitive Electric Field Sensors**

- **Improved Sensitivity via Elimination of Electrochemical Reactions**
  - **AT 10 m SPACING WITH COHERENT CANCELLATION TO 7 nV/m√Hz at 10 Hz**
  - **AT ~0 m SPACING SHOWING TWO 2 CHANNELS AT THE INTERNAL NOISE FLOOR OF 70 nV/m√Hz at 10 Hz**

**Ultra Dry Ground Conditions**

- **1 μV/3Hz = 50 nVrms/m in 0.1 to 100 Hz band**
- **Conventional Electrodes Unable to Operate on Ultra Dry Sand**
- **Pb/PbCl₂ unable to establish a galvanic contact**
- **eQube™ Sensors Perform Well on Ultra Dry Sand**

*Experimental data for a pair of eQube™ sensors measuring an applied E-field in earth with impedances of the sensor input ranging from 100 Ω to 4 MΩ. The average difference in recorded amplitude over the 4 x 10⁴ range of resistance is within 0.2% from 0.1 Hz to 100 Hz, while the phase difference from the known signal is less than 1 mrad from 0.1 Hz to 100 Hz except for 4 MΩ sand, for which it is still less than 5 mrad.*

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