

# GS1 RUGGED VWC



<b>MEASUREMENT TIME</b>	10 ms (milliseconds)
<b>ACCURACY</b>	<p><math>\pm 0.03 \text{ m}^3/\text{m}^3</math> in typical soils, up to 8 dS/m</p> <p>With soil-specific calibration: <math>\pm 0.01</math> to <math>0.02 \text{ m}^3/\text{m}^3</math> Resolution: 0.001 <math>\text{m}^3/\text{m}^3</math> VWC in mineral soils</p>
<b>POWER REQUIREMENTS</b>	3.0 VDC to 15 VDC (absolute maximum) @ 15 mA. Output: 1,000 to 2,500 mV
<b>OPERATING ENVIRONMENT</b>	$-40$ to $50^\circ \text{C}^1$
<b>RANGE OF MEASUREMENT</b>	0 to 100% VWC
<b>SENSOR DIMENSIONS</b>	8.9 cm x 1.8 cm x 0.7 cm
<b>CONNECTOR TYPES</b>	3.5 mm (stereo) plug or stripped & tinned lead wires (Pigtail)
<b>CABLE LENGTH</b>	5 m standard; custom cable length available upon request
<b>CABLE LENGTH</b>	5 m standard, custom cable lengths available upon request
<b>CABLE CONNECTOR TYPES</b>	3.5 mm "stereo" plug, or stripped and tinned lead wires (3)
<b>DATA LOGGER COMPATIBILITY (NOT EXCLUSIVE)</b>	<p>Decagon Em50 Series (Em50, Em50R, Em50G, and Em50B), ProCheck,</p> <p>Campbell Scientific (CRX10, CR850, 1000, 3000, etc.)</p>

# GS1 Ruggedized Low Cost Volumetric Water Content Sensor

- **Monitor More, Spend Less**

- **Epoxy Body Withstands Tough Field Conditions**

- **Stainless Steel Needles for Easy Installation**

- **Full Water Content Range**

- **70 MHz Frequency Capacitance Technology**

- **Plug and Log with Decagon Data Loggers**

- **Database and Graph Measurements**

- **Compatible with Many Other Loggers**

## Reasons to Pick the GS1

- **-You need an inexpensive soil moisture sensor that lasts a long time**
- **-You need to measure VWC only in a harsh environment**
- **-You are setting up a large-scale network of soil moisture sensors**

