



## Campbell Scientific CS615/CS616 Water Content Reflectometer Probes

Sensor Application Note #5

### Overview

This Sensor Application Note provides additional information to wire and configure the Campbell Scientific CS615 or CS616 Water Content Reflectometer Probes.

More information on these sensors may be found in the Campbell CS615 and CS616 Water Content Reflectometer Instruction Manual.

**Note: Use of the P138 with the CS616 may require upgrade of your Control Module firmware. Contact Campbell Scientific to verify up-to-date firmware. To avoid incompatibilities MultiLogger uses the period averaging instruction, P27, for reading the CS616.**

### Wiring

Description	CS615	CS616	Non-MultiSensor	MultiSensor
Frequency Output	Green	Green	1H1/1H	1H1/1H
Ground	Black	Black	1L1/1L	1L1/1L
12V Power In Enable	Red Orange	Red Orange	1H2/2H	1H2/2H
NC			1L2/2L	1L2/2L
Shield	Bare	Bare	S	S

### Configuration

Type	Make	Model	Instruction File	Description	Output Units
Soil Moisture	Campbell	CS615	Cs615.ins	Model CS615	0-1, fractional
Soil Moisture	Campbell	CS616	Cs616.ins	Model CS616	0-1, fractional

Enter a Gage Factor of 100 to convert the fractional soil moisture output to percent volumetric water content.

The CS616 sensor configurations are included in shipments of MultiLogger beginning with v2.1.0. Contact Canary Systems if you require assistance configuring them with older versions of the software.

### Non-MultiSensor Multiplexer Wiring

