



## VOLTAGE AND GROUND STATE SENSORS

### PART #91165, #91166

### Installation Instructions

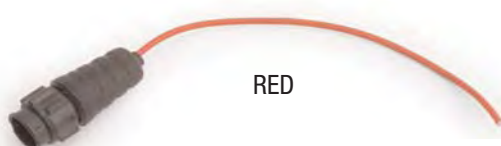
**PLEASE** study these instructions carefully before beginning this installation. If you have any questions, please call our **Technical Hotline at: 1-800-416-8628**, 7:00 am - 5:00 pm, Pacific Standard Time, Monday through Friday.

#### **IMPORTANT NOTE:**

***Proper installation is the responsibility of the installer.***

Voltage and Ground State Sensors are designed to convert a switched positive voltage or ground to a 0-5volt output for logging with any Analog Channel Input.

Application may include monitoring of Brake Application, Nitrous Stage Activation, Transbrake or Clutch Release, Shift Light Activation or any relay or component activated by a switched voltage or ground.



PART #91165



PART #91166

For application providing a switched positive voltage supply use sensor #91165 and splice red flying lead to switched positive wire or accessory positive terminal.

PART NUMBER ..... **#91165**

APPLICATION..... **POSITIVE VOLTAGE**

WIRE LEAD COLOR..... **RED**

QD2 CALIBRATION.....

Bits	Value
0	0.000
1200	1.000

For applications that provide a switched ground use sensor #91166 and splice black flying lead to switched ground wire or accessory ground terminal.

PART NUMBER ..... **#91166**

APPLICATION..... **NEGATIVE VOLTAGE**

WIRE LEAD COLOR..... **BLACK**

QD2 CALIBRATION.....

Bits	Value
0	1.000
2000	0.000

#### **QWIKDATA 2 CALIBRATION:**

**1)** From **Calibration Window** import Sensor Calibrations. Select **File-Import**, under **Misc.** tab select sensor part number to apply calibration.

**2)** From **Calibration Window** under **Calibrate** select **Calibration Type - Table with Hold.**

\*Sensor output will read 0 until voltage or ground is applied, then output will switch to 1.

#### **Note:**

Sensor #91165 Positive Voltage Sensor can be used to measure voltages by connecting to a component and using

**Voltage Sensor Positive #91165** Calibration from Import Calibration function:

Bits	Value
0	0.000
4021	20.00

#### **QWIKDATA CALIBRATIONS (Analog Channels)**

Positive Sensor	Unit	0.00	1.00	0.00	0.00	0.00	0.00
	(Volts)	0.00	1.46	0.00	0.00	0.00	0.00
Ground Sensor	Unit	1.00	0.00	0.00	0.00	0.00	0.00
	(Volts)	0.00	2.44	0.00	0.00	0.00	0.00
Battery Volts	Unit	0.00	20.00	0.00	0.00	0.00	0.00
	(Volts)	0.00	4.91	0.00	0.00	0.00	0.00

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