

Load Cell Amplifier PRO

DATA SHEET

Specifications

Operating Environment:

Temperature: 0-50 degrees.
Humidity: 30 to 80 percent, non-condensing.

Power Supply Requirements:

Power Supply voltage: 9 volts DC
Operating current: 5mA, plus bridge current.

Bridge Input:

Excitation voltage: 5 volts.
Bridge type: Full Wheatstone Bridge.

Voltage Output Range:

From 0 volts to 4.3 volts.

Potentiometer Function Descriptions:

VR1: Load cell offset adjustment.
VR2: Gain of AMP adjustment.(Gain range 1 to 1000)
VR3: Reference voltage of AMP adjustment.

Wiring Diagram:

E+ : Load Cell E+
S- : Load Cell S -
S+ : Load Cell S+
E- : Load Cell E-
Shield: Load Cell Shield Wire
V: Power Supply +
G1: Power Supply-
G2: Signal -
S: Signal +



Load Cell E+
Load Cell S-
Load Cell S+
Load Cell E-
Load Cell Shield Wire

Power Supply+
Power Supply-
Signal-
Signal+

Load Cell Amplifier Calibration Instructions:

1. Adjust the zero output voltage: Remove all weight from platform and then adjust VR1 or VR3 with screwdriver to the intended value.
2. Adjust the max output voltage: Put full-scale weight on platform and then adjust VR2 with screwdriver to the intended value.
3. Remove all weight from the platform, if the output is not the initial zero voltage output, repeat the step 1 and 2 until the initial zero voltage output and the full scale voltage output.

Circuit Schematics

