

Interface Amplified Load Cells

Why the Interface Amplified Load Cells are the best in class:

- High level voltage or current output
- Increased signal to noise ratio
- 2-wire 4-20
- Zero and span adjustment
- 3-wire 4-20, ± 5 or ± 10 VDC
- Internal shunt calibration
- Bipolar or unipolar

In addition to our many external signal conditioning options, Interface also offers load cells with internal amplifiers. Benefits of an internal amplifier include increased signal to noise ratio, fewer components to troubleshoot and high output directly from the load cell package. Both a 2-wire and 3-wire version are available. Each is reverse voltage protected to prevent damage from accidental mis-wiring. Common features include shunt calibration and pots for zero and span adjustment. In standard configuration the pots are protected by removable screw caps but by request can be sealed at the factory, preventing field adjustment.

INSTRUMENTATION

The 2-wire amplifier is a 4-20 mA loop powered device. Featured in our model 2404 series cell, the 2-wire amplifier is suitable for process control and rugged industrial use. The 2404 series is an environmentally sealed Stainless Steel load cell based on our popular 2400 series. Output is either 4-20 mA compression, 4-20 mA tension, or 12 mA ± 8 mA tension & compression. O-ring seals protect the pots. Internal shunt calibration is optional. Supply voltage is 9-28 VDC.



The 3-wire amplifier is available as an option on our model 1200 series Low Profile load cells capacities from 300 to 1 million lbf. Configured as a factory add-on option, the 3-wire amplifier can be added to any of our stocked Low Profile load cells. Powered between 11 and 28 VDC, the 3-wire amplifier is suitable for vehicle or battery powered applications. Available outputs are ± 5 VDC, ± 10 VDC, 4-20 mA or 12 ± 8 mA. For current output maximum load resistance is 500 ohms. A precision internal shunt resistor is included for easy field adjustment.