

M-3200

Load Cell Amplifier Module

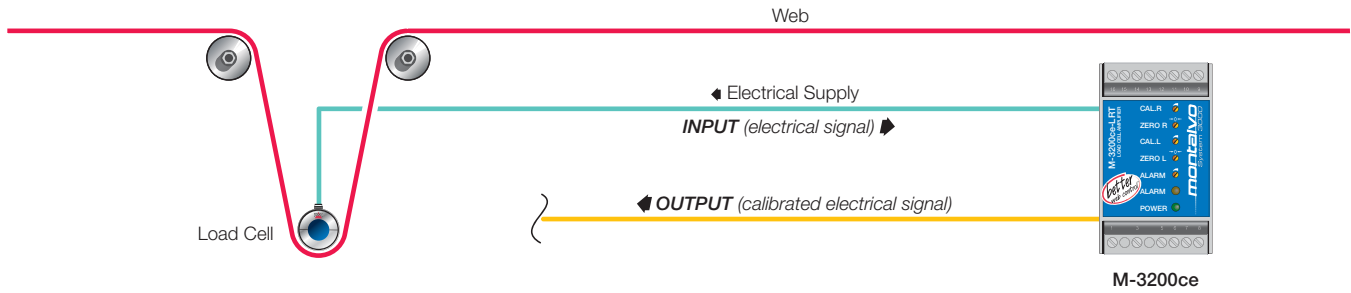
**Montalvo M-3200 Load Cell Amplifier Module**

The M3200 indicates and monitors web tension by amplifying load cell signals. It provides excitation voltage as well as zero and calibration circuitry.

Features

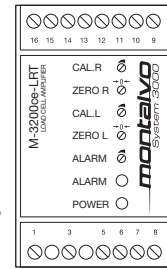
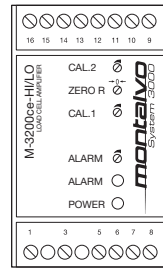
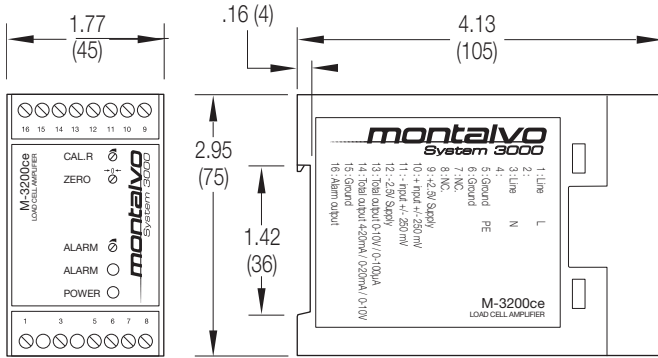
- ▶ Compact
- ▶ Low Cost
- ▶ Three models
- ▶ DIN rail mountable
- ▶ Measurement range fits most applications
- ▶ 24V alarm output with adjustable trip point
- ▶ Output can drive digital or analog tension meter
- ▶ Output can also interface with PLC, PC, or DC, AC or servo drive
- ▶ Compatible with N, ES, R, TNT and U Series semiconductor strain gauge load cells as well as with other brands

How it works



M-3200 indicates and monitors total web tension with adjustments for calibration and zero level
 M-3200-LTR provides an additional set of calibration and zero level adjustments for monitoring left, right and total tension simultaneously
 M-3200-HI/LO features dual range capability with two calibration adjustments for high and low gain setting

Specifications



Model

- M-3200ce Total Tension Indication
- M-3200ce-HI/LO Total Tension Indication with Dual Range Capability
- M-3200ce-LTR Left, Total & Right Tension Indication

Electrical

- Supply Voltage, Selectable 115 or 230VAC ±10%(IEC 204-1)
- Supply Frequency..... 48-62 Hz
- Overshoot Category..... III (IEC 664)
- Maximum Internal Fuse Size 5x20 mm 115V/80mA(T) / 230V/50mA(T)
- Maximum Supply Fuse size 10 A
- Maximum Power Consumption.....3.5 VA
- Load Cell Input±250 mVDC
- Input Impedance 100 kΩ
- Load Cell Supply ±2.50 VDC ±1%
- Zero Range Adjustment 50% of Load Cell Rating (±250 mVDC)
- Gain Adjustment 11 to 510
- Alarm Output Voltage 24 VDC ±15%
- Maximum Alarm Output Load..... > 650 Ω
- Meter Output, Selectable..... 0 to 100 µA / 0 to 10V, Max. Load 5 mA
- Process Output, Selectable0 to 20mA / 4 to 20 mA / 0 to 10V
- Process Output Maximum Load (Current)..... 500 Ω
- Process Output Maximum Load (Voltage) 5000 Ω
- Testing Voltage - Primary to Secondary 3.75kV for 1 minute
- Accuracy.....Better than 1%

Other

- Connections Removable Terminal Blocks
- Mounting..... DIN Rail 35 mm
- Mounting Orientation Not Critical
- Ambient Temperature Range: Operating 14 to 122°F (-10 to 50°C)
- Ambient Temperature Range: Storage 14 to 176°F (-10 to 80°C)
- Humidity..... <95% Non-Condensing
- Degree of Protection.....IP20 (IEC 529)
- EMC-ImmunityEN 50082-2 Industry
- EMC-Emission..... EN 50081-1 Trade and Light Industry
- Material Degree of Inflammability UL 94 V0
- Installation Environment (Pollution Degree).....2
- Weight (approx.)0.66 lb (0.3 kg)
- Size (WxDxH)..... 1.77 x 4.13 x 2.95 (45 x 105 x 75)
- Dimensions..... inches (mm)