

M-3200

Load Cell Amplifier Module



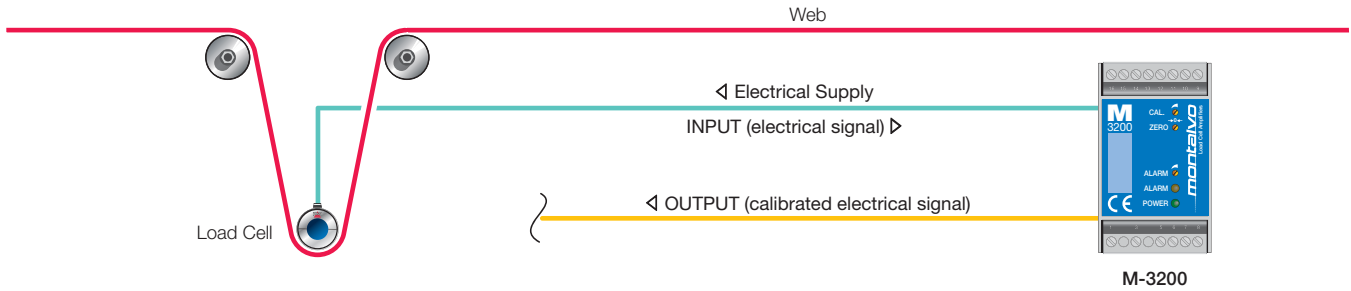
Montalvo M-3200 Load Cell Amplifier Module

Montalvo's Standard M-3200 Load Cell Amplifier Module is used in conjunction with *one* or *two* semi-conductor strain gauge load cells to indicate and monitor web tension by amplifying the load cell signal. The M3200 provides excitation voltage as well as adjustments for calibration and zero level.

Features and Benefits

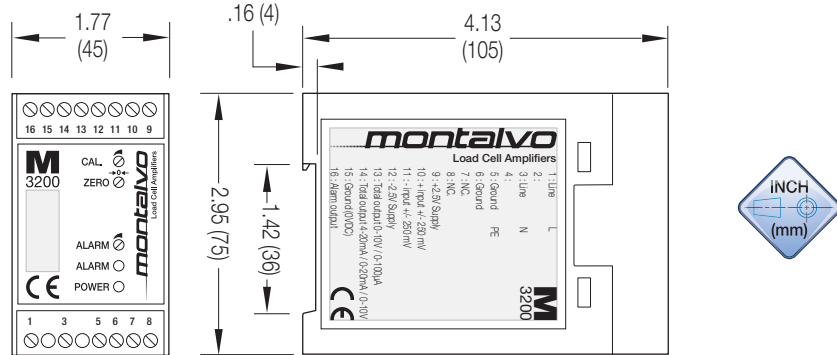
- ▶ **DIN rail mount** - makes installation easy
- ▶ **Compact form** - fits into virtually any application
- ▶ **115/230 VAC** supply voltage - offers convenient wiring
- ▶ **24V alarm** output with adjustable trip point - for enhanced monitoring
- ▶ **Drive digital or analog tension meter** - choice of monitoring options
- ▶ **Interface with PLC, PC, or DC, AC or servo drive** - for closed loop tension control
- ▶ **Compatible with semi-conductor strain gauge load cells** - Montalvo as well as other brands

How it works



M-3200 indicates and monitors total web tension.

Specifications



Model	
M-3200	Total Tension Indication
Part Number.....	11000810

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, Selectable	0 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-Immunity	EN 50082-2 Industry
EMC-Emission.....	EN 50081-1 Trade and Light Industry
Material Degree of Inflammability	UL 94 VO
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)

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