



## Cleveland Motion Controls

# 4zone Tension Controller

Powered by FALCON

Multi-Zone Tension Controller with preconfigured PID control loops for use with tension transducer or dancer feedback.

- Thin Panel PC
- Configurable Analog and Digital I/O
- IEC-61131-3 Compliant
- Displays Line Speed, Web Tension and Roll Diameter
- Affordable
- Easy Set-up and Training using Built-in Touch Screen
- FALCON Unlimited Tag Run Time Included
- Four (4) PID Loops

### OVERVIEW: The 4Zone:

The Cleveland Motion Controls 4Zone Tension Controller combines the power of FALCON, CMC's Programmable Automation Controller with the experience, reliability and application know-how of the Cleveland-Kidder product family. By combining closed-loop tension control along with the powerful IEC-61131-3 machine logic control the 4Zone Tension Controller offers the most advanced converting machine controller available.

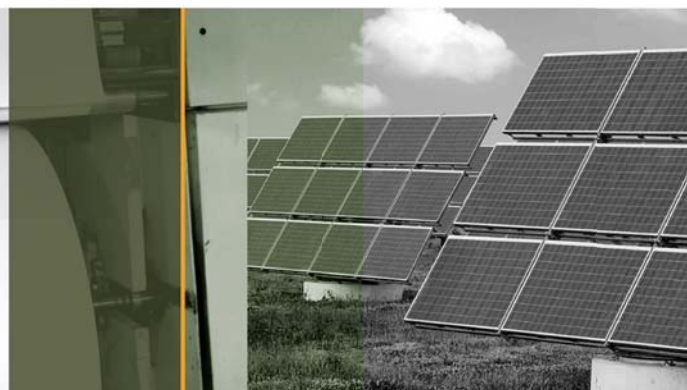
The 4Zone Tension Controller accepts a +/- 0-10 VDC input from any feedback device including tension transducer amplifiers and dancer position sensors. Each zone can be configured independently as a speed, tension, dancer, intermediate, unwind or winder.

The 4Zone Operator Screens are preconfigured with easy operator setup selections. Advance customization is possible using the CMC FALCON Development Software package (available as an option).



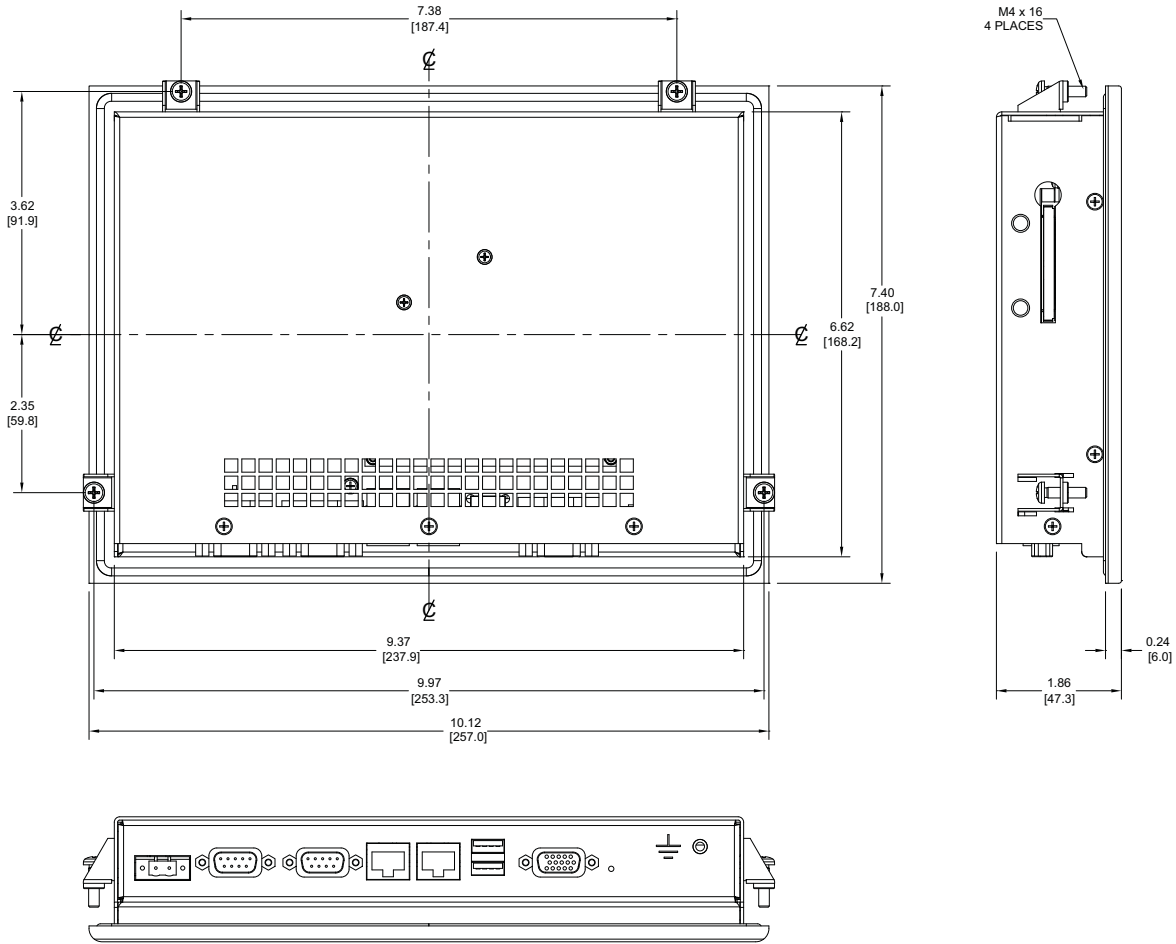
### Design Features:

Cleveland Motion Controls' 4Zone Tension Controller provides a complete machine control solution by combining an executable FALCON runtime routine for 4 separate PID loops within a thin panel PC and associated I/O hardware. Each section can be programmed as an unwind, winder, helper or master section. Scaling and tuning parameters are available for each section. An HMI is included and provides the operator complete control of the machine including start/stop control, speed and tension set point and display. The FALCON 4Zone Tension Controller offers an affordable package using the latest embedded PC Technology.



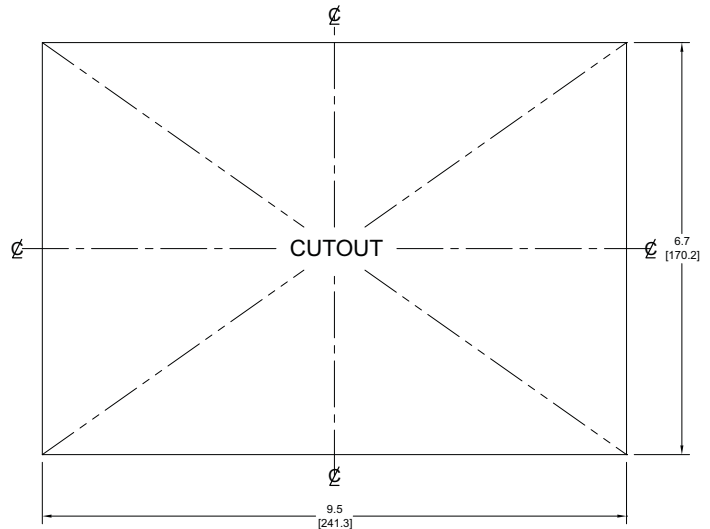
*Engineered for life*

# 4Zone Tension Controller



## TECHNICAL SPECIFICATIONS

- Display size: 8.4" TFT
- 800 x 600 Resolution
- Resistive analog touch screen
- IP 65 front (NEMA 250 type 12 and 13)
- Celeron 800 MHz processor
- Overall Dimensions 18x257x53 mm
- 1 GB Compact Flash
- CAN bus on board
- 1 GB SDRAM
- I/O: 1x RS 232, 1x LAN, 2x USB, VGA, +24VDC IN
- Power supply: 24 VDC
- Fanless cooling concept
- Windows XP embedded
- Preconfigured FALCON Runtime
- CE Certification



## LOOSE I/O HARDWARE INCLUDED

- 16 Digital Inputs
- 16 Digital Outputs
- 4 Analog Inputs
- 4 Analog Outputs
- Ethernet TCP/IP Bus Coupler