

# CTI-1000

# TENSION INDICATOR



**COMPTROL'S CTI-1000 TENSION INDICATOR** does more than accurately monitor web or strip tension on continuous processing lines. It also provides:

- An isolated 0-10 volt or 4-20 milliamp DC feedback signal to a PLC, drive system, or system controller. The signal is directly proportional to the tension applied.
- A precise 24 volt DC power source for the operation of two Comptrol tension transducers.

**MONITOR TOTAL TENSION OR INDIVIDUAL TRANSDUCER OUTPUTS.** The CTI-1000 features a three position selector switch for monitoring total tension or the tension applied to each tension transducer. By rotating and holding the spring-loaded switch to either the respective Cell 1 or Cell 2 position, you can monitor the tension applied to the individual transducers.

**SPECIFY THE METER SCALE BEST SUITED FOR YOUR APPLICATION.** The CTI-1000's large, easy-to-read, analog meter is provided with any scale you need. There's no additional charge whether you want the meter to indicate the applied tension in pounds, newtons, kilograms, percent, or other unit of measure.

**FILTERING, SUMMING, AND BALANCING CIRCUITRY** conditions the input and output signals to provide a more accurate indication of the total applied tension. Comptrol's low-pass filter eliminates 60 Hertz line noise from the input signal.

**ZERO TARE ADJUSTMENT** allows you to electronically zero the CTI-1000 so that it only reads the tension in the material, not the weight of the measuring roll and bearings.

**FINE TUNE THE CTI-1000 TO YOUR APPLICATION.**

Adjustments are provided for zeroing the meter with zero tension applied and full scale with maximum tension applied. The feedback signal adjustments allow you to adjust the signal to provide the maximum available output range from the unit.

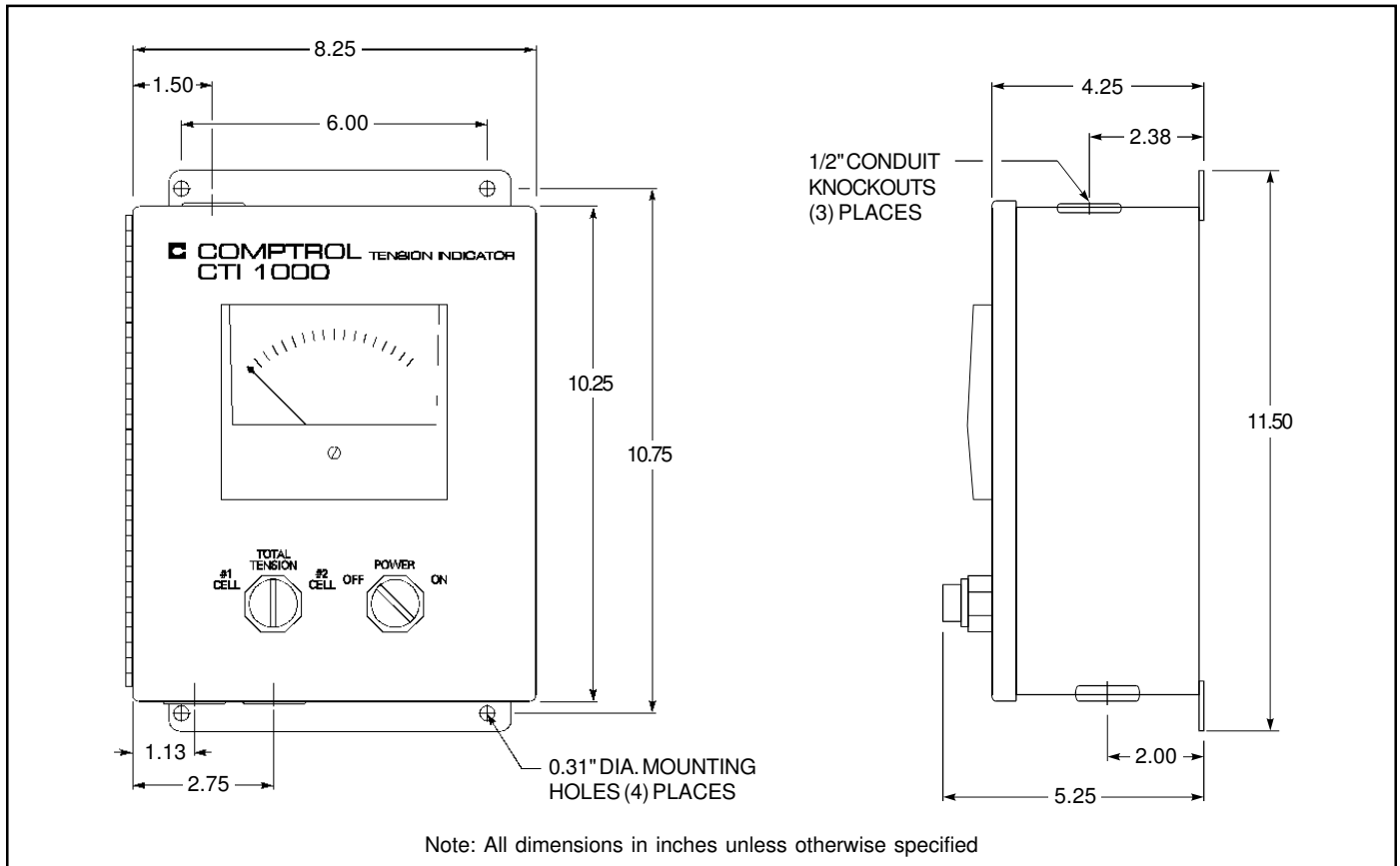
**CORROSION RESISTANT, 303 STAINLESS STEEL ENCLOSURE IS STANDARD.** The CTI-1000 is self-contained in a NEMA 12 rated enclosure measuring only 8.25" wide x 10.25" high x 4.25 deep. The front door panel is gasketed to protect the electronics from dirt and contamination.

**EASY TO INSTALL AND OPERATE.** The CTI-1000 can be wall or pedestal mounted, or housed in a cabinet or console. Electrical connections are easily accessible to facilitate installation.

**ILLUMINATED POWER "ON" INDICATOR FOR SAFE OPERATION AND MAINTENANCE.** The CTI-1000 is powered by standard 120 or 240 volt AC power. The power-on LED, located on the internal printed circuit board, is illuminated if power is present. The power ON/OFF switch on the front face illuminates when power is supplied to the unit and the switch is in the ON position.

***Specify Comptrol tension transducers, indicators, and controls for the best in tension measurement and control.***

# CTI-1000 DIMENSIONS



## STANDARD FEATURES:

- Corrosion resistant stainless steel NEMA 12 rated enclosure
- Electrical tare adjustment
- 24 volt DC power source for the operation of two Comptrol tension transducers
- Isolated 0-10 volt DC output signal, directly proportional to the applied tension
- Illuminated power-on switch and LED
- Filtering, summing, and balancing circuitry
- Three position selector switch for monitoring total tension or the tension applied to the individual transducers
- Full scale meter adjustments
- Electrical feedback signal adjustments
- Three 1/2" conduit knockouts

## SPECIFICATIONS

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| Power In .....                         | 120/240 VAC, 1 $\phi$ , 50-60Hz, <1.0 Amp. |
| Output (proportional to tension) ..... | 0-10 VDC                                   |
| Optional .....                         | 4-20 mADC                                  |
| Transducer Supply .....                | 24 VDC                                     |
| Ambient Temperature .....              | 0-40° C                                    |
| Meter Scales .....                     | Customer Specified (No Charge)             |
| Standard .....                         | Percent Tension (0-100%)                   |
| Approximate Weight .....               | 12 lbs.                                    |
| Enclosure Dimensions .....             | 10.25" x 8.25" x 4.25"                     |

Specifications and dimensions subject to change without notice. Protective covers and guards may have been removed to provide clearer view. All protective guards and devices must be installed and secured before operation.



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