



www.dfe.com controlling process tension

## TrueTension™ TI17C and TI18C Amplifier/ Indicator Comparing Output Voltage Over Time at Ambient and Cycled Temperature



The TI17C and TI18C tension indicators have had their internal components upgraded and ruggedized over previous generations of tension measurement electronics. Thorough testing shows that they deliver exceptional output stability, accuracy and signal integrity.

The charts displayed here represent data collected from two controlled laboratory tests that DFE's Engineering department performed on both the TI17C indicator and a major competitor's top-of-the-line tension amplifier. The first chart shows the TI17C's signal output at a constant low-voltage input and at ambient temperature (~70°F) from startup over time. It also shows the output of the competitor's tension amplifier run simultaneously under the same conditions.

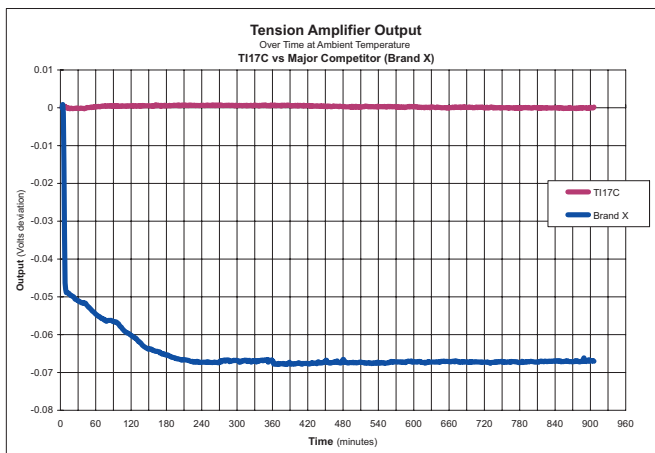


CHART 1

The second chart shows signal outputs with a constant input, over a 16.5-hour temperature cycle (75° to 120°F and back). The drift in the DFE output signal is virtually non-existent at the millivolt level. The drift of the competitor brand output tracks almost inversely with the change in temperature.

While the most visible upgrade from the TI17B generation is the time-saving Quick-Cal™ push-button zero and calibration feature, design elements that strengthened the amplifier's output characteristics include integrated isolation, circuit-stabilization, noise protection, surge protection, and current limiting. The TI17C retained the footprint and connector pinout scheme from the TI17B for backward compatibility and drop-in replacement, and the board architecture and components have been upgraded substantially. The TI17C and TI18C

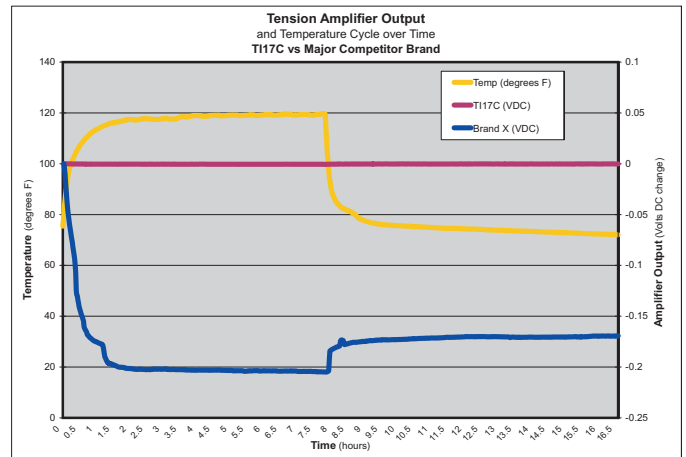


CHART 2

indicators are CE-marked and provide drift-free linear performance over a wide range of industrial conditions.

Additional TI17C and TI18C features:

- **Quik-Cal™** Zero and calibration pushbuttons for faster setup out-of-the-box with no pot adjustments.
- **0-10VDC isolated output** proportional to tension. 4-20mA isolated output optional.
- **Dual Calibration.**
- **Tension Limit Switch** (optional) serves as an alarm trigger for web break prevention.

For more information go to [www.dfe.com](http://www.dfe.com).



THE TENSION CONTROL SPECIALISTS

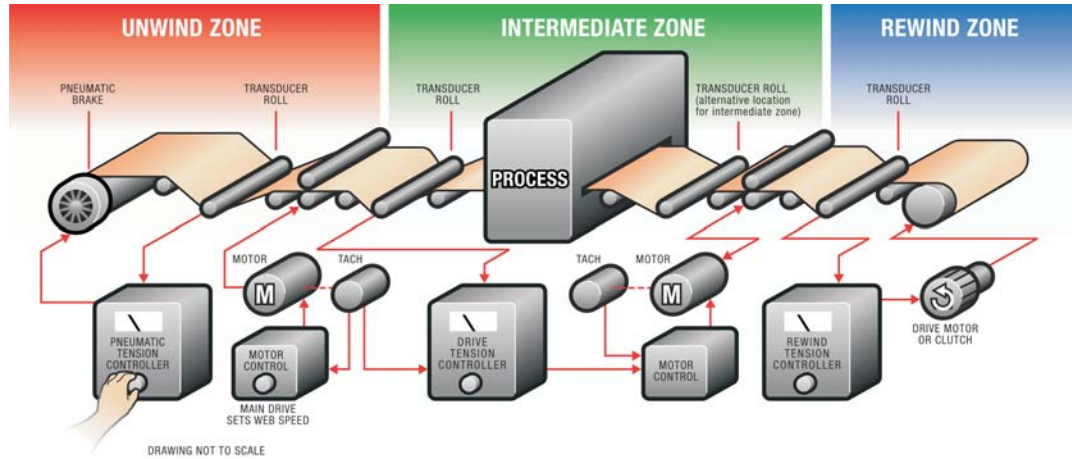
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# INFO REQUEST

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Stable tension control compensates for process deviations that cause web and roll defects. It's a fact. Dover Flexo tension measurement components or a closed loop control system can be integrated smoothly into your press' web path in only the tension zones that need them.

For fast information complete and **fax** this form to DFE at **(603) 332-3758**. Or call us at (603) 332-6150.

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We manufacture/process (material):  
\_\_\_\_\_

The project we're considering involves:  
\_\_\_\_\_  
\_\_\_\_\_

Send me your recent white paper on:  
**"Improving Web-Processes with  
Direct Tension-Sensing"**

### Please send:

- Product Guide (14 page overview)
- DFE catalog (80 page 3-ring binder with complete product specs)
- CD ROM with product CAD library
- Tension Transducer data sheets
- Indicator/Transducer interface data sheets
- Tension Controller data sheets
- Pneumatic Brakes Catalog
- Application Note/Case History on: \_\_\_\_\_
- Data sheet on: \_\_\_\_\_
- Other: \_\_\_\_\_
- Have a Sales Rep call me



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