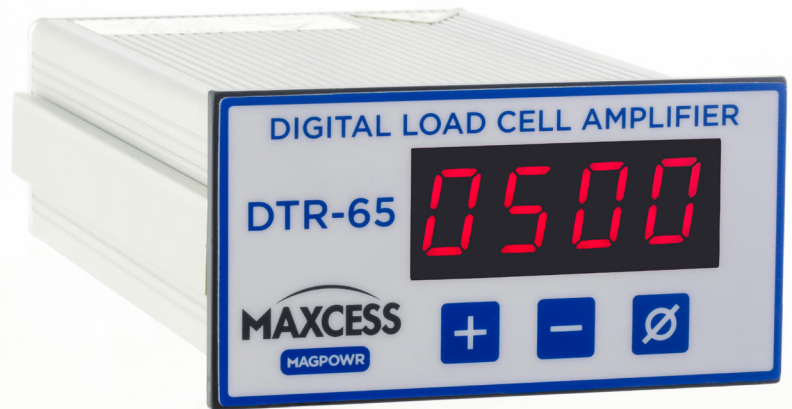




The new Digital Tension Readout (DTR-65) is a powerful and versatile panel-mounted digital amplifier used to display measured tension locally on a machine panel and will multiply a millivolt tension signal to a usable 0 to 10 VDC and 4 to 20 mA DC analog output.

The DTR-65 is an 1/8 DIN panel mount enclosure that is IP65 protected on the face. It incorporates ease of use and setup with a keypad and a four-segment display, fully programmable low pass filter for each output, tension alarm set points, quick and easy calibration, and even weightless load cell calibration.



These features, combined with superior drift and linearity performance, make the DTR-65 an easy choice when needing a tension displayed on a machine panel with the option to also output a tension reference to a drive or PLC for remotely displaying or controlling tension.

GENERAL SPECIFICATIONS

Product Name:

DTR-65, Digital Tension Readout

Supply Power:

24 VDC, +/- 10%, 0.14 ADC maximum
or
100 to 240 VAC +/- 10%,
50 to 60 HZ, 0.09A

Inputs

Load Cell Excitation:
5 or 7.5 VDC, 100mA DC maximum

Load Cell Sensitivity:

1.5 to 100 mV/V single sensor or pair

Digital Input (re-zero):

24 VDC maximum
5 VDC or 24 VDC selectable threshold

Outputs:

Analog Outputs

0 to 10 VDC, 5mA, 2 kohm minimum
load
4 to 20 mA DC, 450 ohm maximum load

Reference Meter Output

0 to 1 mA DC, 1 kohm maximum load or
0 to 10 VDC, open circuit

Alarm Output

30 VDC maximum, 0.4 ADC maximum

Gain:

32:1

Display:

4-digit LED

Enclosure:

IP20 (back and sides)
IP65 (front panel)

Mounting:

1/8 DIN panel mount

Certifications:

CE (EN61326-1)
TUV Mark (UL61010-1),
CAN/CSA-C22.2# 61010-1,
CB to IEC 61010-1
RoHS

Temperature Range:

DC Supply Operating:
0 to 50 degrees C
(32 to 122 degrees F)

AC Supply Operating:

0 to 45 degrees C
(32 to 113 degrees F)

Storage:

-20 to 80 degrees C
(-4 to 176 degrees F)

Climate Class:

3K3 (EN60721)

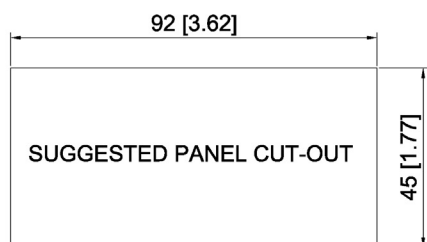
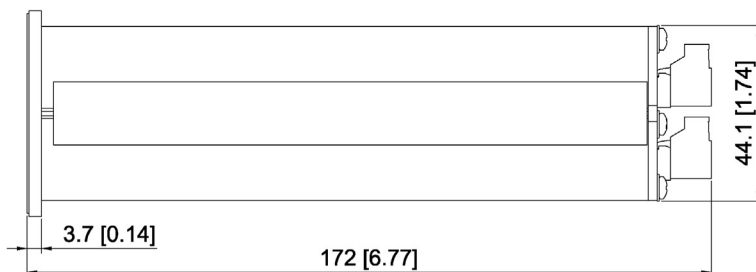
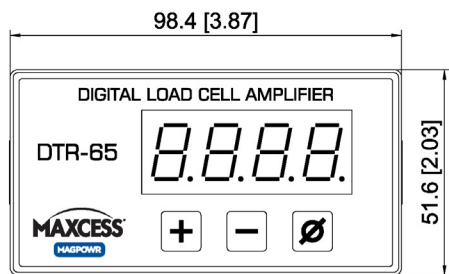
Pollution Degree:

2 (IEC664-1)

KEY FEATURES

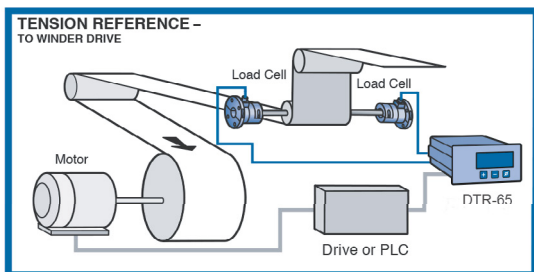
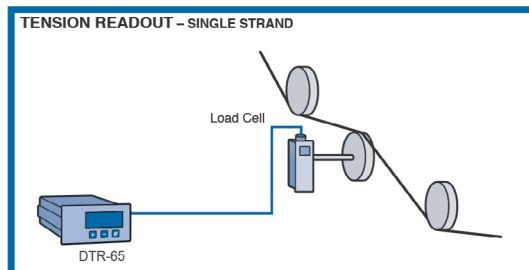
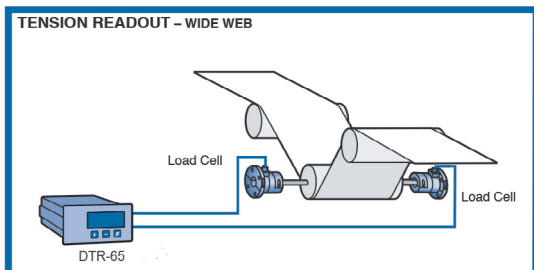
- Small panel usage, 1/8 DIN enclosure (same as DTR)
- Setup and calibration through keypad and digital display
- Weightless load cell calibration
- Outputs and display have fully adjustable and separate digital filtering
- One push button for re-zeroing, with optional input for remote re-zeroing
- Alarm output for high tension or low tension or high or low tension
- Works with 5 and 7.5 volt excitation sensors with 1.5 to 100 mV/V signals
- 32:1 gain adjustment
- Automatic load cell diagnostics/fault indicator
- Powered with 24 VDC or 100 to 240 VAC
- Can zero out Idler Roll weight up to 90% of load cell rating

DIMENSIONS



(Dimensions shown in mm (inches))

TYPICAL APPLICATION



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