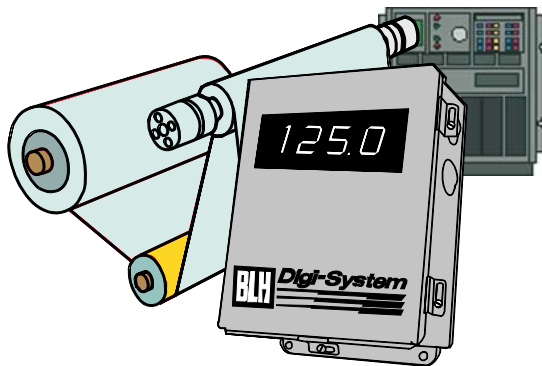


**DXt-15 Web Tension Transmitter****Tension Measurement and Indication For:**

Paper Machines  
Converting Equipment  
Textile Machinery  
Roofing Machinery



- Microprocessor Based Web Tension Transmitter
- 0-10V, 4-20 mA, and RS-485 Outputs
- 3 $\frac{1}{2}$  Digit Front Panel Display with a Trailing '0'
- Integral Multiple-Transducer Summing Circuit
- Digital Filter Dampens Vibration Without Reducing Response Time
- Push-Button Setup and Calibration
- Optional Modbus RTU or Allen-Bradley Remote I/O Interface

**Product Description**

DXt-15 transmitters add high accuracy, 50,000 count resolution to T-MAC web tension measuring systems. Precision tension measurement signals from LTT, LTW, LTN, HTA, or HTZ transducers are measured, processed, and displayed on the front panel meter. Simultaneously, precise web tension signals are transmitted through the analog and serial outputs.

Digital filtering ensures stable display readings and smooth output signals for brake and motor drive controls. The DXt-15 contains an internal multi-cell summing circuit, 10 or 15 volt excitation, and digital RS-485 or Allen-Bradley Remote I/O outputs.

*An ISO 9001 Registered Company*

# DXt-15 Specifications and Outline Dimensions

## Performance

Resolution	50,000 counts
Sensitivity	0.5 uvolt/count
Full Scale Range	25 or 35 mV (selectable)
Dead Load Range	100%
Input Impedance	10 M-ohms, min.
Load Cell Excitation (Selectable)	10 V for up to eight 350 ohm load cells (250 mA) 15 V for up to six 350 ohm load cells (260 mA)
Linearity	± 0.01% of full scale
Common Mode Rej.	100 db or better at or below 35Hz
Normal Mode Rej.	100 db or better at or below 35Hz
Conversion Speed	50 msec

## Temperature Coefficient

Span	± 2ppm/°C typical, 7ppm/°C max.
Zero	± 2ppm/°C

## Environment

Operating Temperature	-10 to 55°C (12 to 131°F)
Storage Temperature	-20 to 85°C (- to 185°F)
Humidity	5 to 90% rh, non-condensing
Voltage	117/230 ± 15% 50/60 Hz
Power	10 watts max
Parameter Storage	EEPROM
EMI/RFI	shielded from typical industrial interference

## Display

Type	3 1/2 digit LCD with trailing zero characters are 0.7" tall
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## Enclosure

Dimensions (NEMA 4/4X) 11.5 x 8.0 x 4.3 HWD

## Isolated Analog Output

Type	12 bit digital to analog conversion
Voltage	0 to 10 volt (25K ohm min load)
Current	4 to 20 mA (600 ohm max load)

## Serial Communication

### Simplex Data Output (Standard)

Interface Type	RS-485 (Simplex)
Baud	1200 or 9600
Data Format	simplex ASCII Data 7 data bits, even parity, 1 stop bit

### Terminal/Computer Interface (Optional)

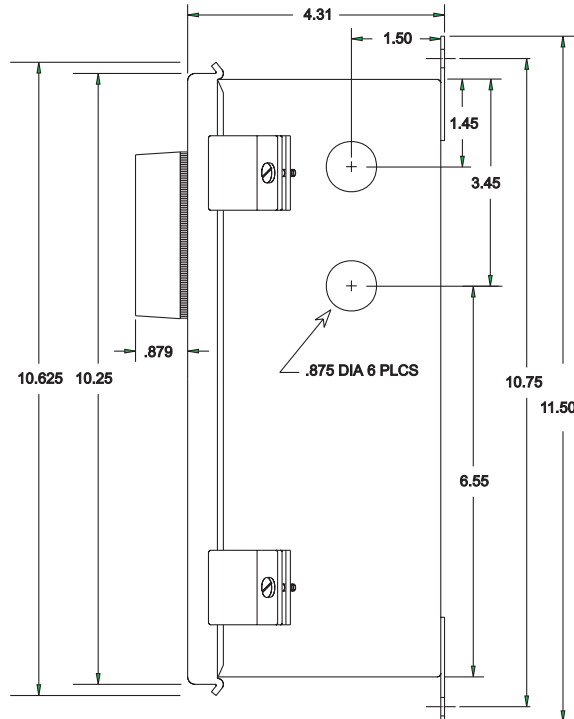
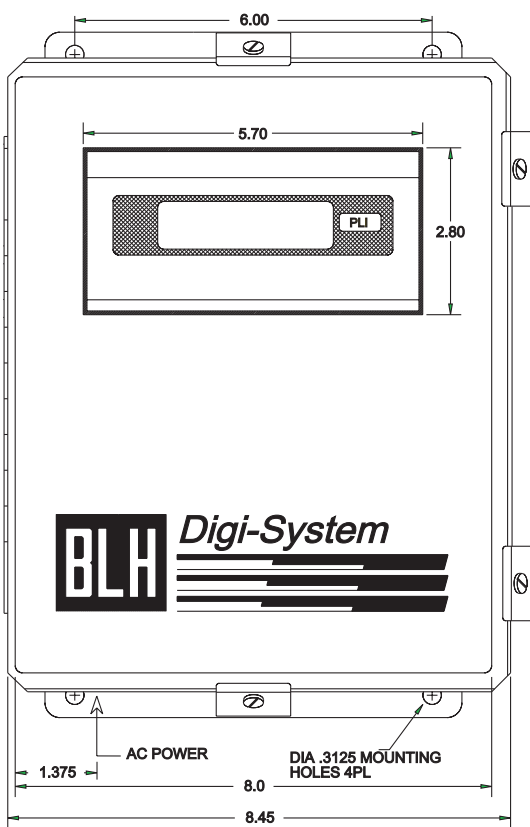
Interface Type	RS-485 half duplex (standard)
Baud	1200 or 9600
Protocol	ASCII duplex command/response
Format	7 data bits, even parity, 1 stop bit

### Interface/Protocol Options

Allen Bradley Remote I/O	1/4 logical rack
Modbus	RTU protocol

## Approvals

FM (Factory Mutual)	3611 (Class I, II, III; Div.1,2; Groups A-G)
CSA	C22.2 (Class I, II, III; Div.1,2; Groups A-G)



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