

WebHandler™ 3 AUTOMATIC DIGITAL TENSION CONTROLLER Panel Mount (PM) Option

The WebHandler™ 3 maintains a pre-selected tension set point on a web machine or press by measuring web tension from a tension transducer, then sending a compensating signal to a tensioning device such as a pneumatic brake or a DC drive. This closed-loop capability improves process consistency and productivity.

Now available in a panel mount version, the industry standard WebHandler™ 3 Tension Controller installs quickly and easily onto OEM machinery or as a retrofit on an existing machine.

The Panel Mount controller simply mounts into a small cutout on the web machine frame or control station and is secured by four bolts at the front panel corners.

The large, two-line backlit LCD display reads out menu items, controller status and input prompts for use during setup and operating adjustment. Features include touch-pad setup and calibration, job setup storage and recall, and LCD scroll-through of an array of simple-to-activate functions including push-button rezero.

The controller features soft start and bumpless auto/manual switching. It also automatically compensates for speed changes, roll diameter changes and other factors to maintain desired tension. Ten different measurement units are available for tension readings on the digital display.

Operation of the WebHandler™ 3 requires no special skills or training. The controller may be used



in unwind, rewind or intermediate tension zones. Two controller output modes are available for operating pneumatic brakes and clutches, and DC and AC drives:

Pneumatic output (P): Used to actuate any air operated brake or clutch. The standard version includes a servo valve, air filter, and pressure regulator installed in an open back enclosure.

0-10 Volt DC output (D): Used to control DC drives or other variable speed drive systems. This output can be isolated from earth ground to make it more compatible with all drives.

FEATURES:

- 0-10Vdc output (proportional to tension)
- Automatic and Manual control modes
- Emergency Stop
- Soft Start

OPTIONS:

- **230 Volt Power (230).**
- **Extended Range (XRE).** Allows extra sensitivity at low tension. Transducers must have XR option.
- **+0-10Vdc OR 4-20mA Isolated Output (I10,I420).** Output which is not connected to circuit common, or to earth ground.
- **Metric Pneumatic Fittings (MPF).** "P" Version only.
- **Remote Tension Amplifier (RTA).** Tension signal is provided by an external device.
- **RS485 RS485 Serial Connection.**

- RS232 Serial Communications Port
- Tension meter damping
- High & Low Tension Limit Switch

- **Reverse Output (RO).** Increases output when tension exceeds set point, and decreases when tension drops below set point. Used in intermediate applications where transducers are located after the nip rolls being controlled by the transducers or for driven unwinds.
- **Speed Follow (SFD, SFP).** Accepts line speed signal from either a DC tach or pulse tach. Speed is trimmed by tension signal.
- **Taper Tension (TTD, TTF, TTP)** Tapers tension as roll size increases. Works with signal supplied by follower roll, DC or pulse tach.

SPECIFICATIONS:

Power input:

115/230 Volts 60/50Hz single phase @ 1 Amp

Output:

P = 2 to 75 psi (0.14 to 5.17 bar)

D = 0 to ±10 Vdc, Compensated (Optional Isolated)

P, D = Choice of 0-10Vdc or 0-1mA tension signal

Weight: 4 lbs. (1.4 kg)

Transducer Signal Accepted:

500 mVdc per pair at rated load (1000 mV with XR option)

Zero (Tare) Range: 95% of transducer rating, typical

Temperature Range: 32° F to 104° F (0° C to 40° C)

System Accuracy: within 1 - 3% typical

Manual Mode Output Range: 0-100% of rated output

Standard Tension Display Ranges:

0 - 1, 5, 10, 25, 50, 100, 150, 250, 500, 1000, 1500, 2000, 2500, 3000

Taper Tension Range (option): 0-100%

Taper Tension by Rider Roll / Diameter Sensor:

0-10 Vdc input

Pneumatic Enclosure:

Input: 80 to 125 psi, **Output:** 2 to 75 psi (0.14 to 5.17 bar),

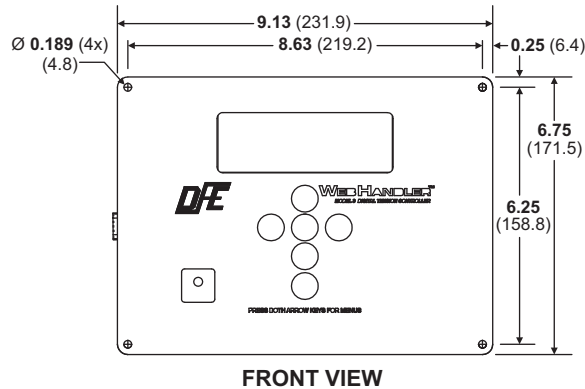
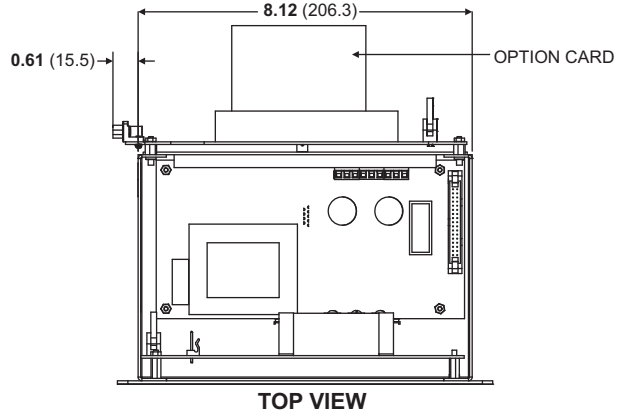
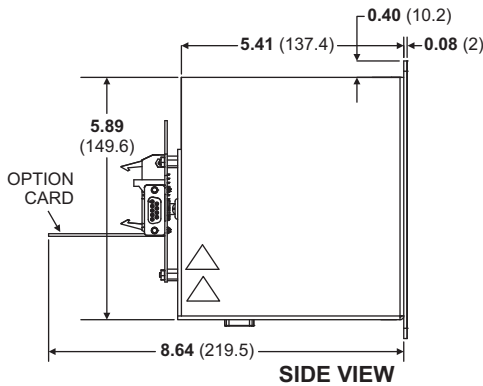
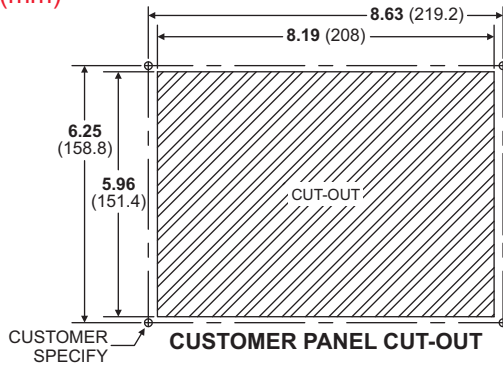
Servo Valve Drive Signal: 4-20mA,

Air Connections: In = 3/8", Out = 1/4" - push fittings,

Weight: 2.84 lbs. (1.28kg.)

PANEL MOUNT DIMENSIONS:

inches (mm)



ORDERING INFO:

You may order by description or by indicating your feature choices in place of the X's in the product code shown below.

Example: WH3P-U-100-PM, RS48, RTA

WH3 X - X - XXXX - PM,OPTIONS (Separated by commas)

OUTPUT	ZONE	METER SCALE	OPTIONS
P = Pneumatic D = Drive	U = Unwind R = Rewind I = Intermediate	1 = 0-1 5 = 0-5 10 = 0-10 25 = 0-25 50 = 0-50 75 = 0-75 100 = 0-100 150 = 0-150 200 = 0-200 250 = 0-250 300 = 0-300 500 = 0-500 1000 = 0-1000 1500 = 0-1500 2000 = 0-2000 2500 = 0-2500 3000 = 0-3000	230 = 230 Volt Power Input I10 = Isolated 10V Output I420 = 4-20mA Output MPF = Metric Pneumatic Fittings PM = Panel Mount RO = Reverse Output RS48 = RS485 Interface RTA = Remote Tension Amplifier SFD = Line Speed Follow SFP = Speed Follow by Pulse Tach TTD = Taper Tension by DC Tach TTF = Taper Tension by Diameter Follower TTP = Taper Tension by Pulse Tach XRE = Extended Range ¹ Z = Special (SPR)

Notes: 1. Transducers must have XR option.

PNEUMATICS ENCLOSURE FOR VERSION P

