

Installation Guide

(Snap Track) Mounting

The transducers may be mounted in any position.

1. Carefully remove the circuit board from the Snap Track.
2. Mount the track in the desired location.
3. Replace board in the track. Do not slide or flex the circuit board while replacing.

Tube Connections

XEC-3001/3004

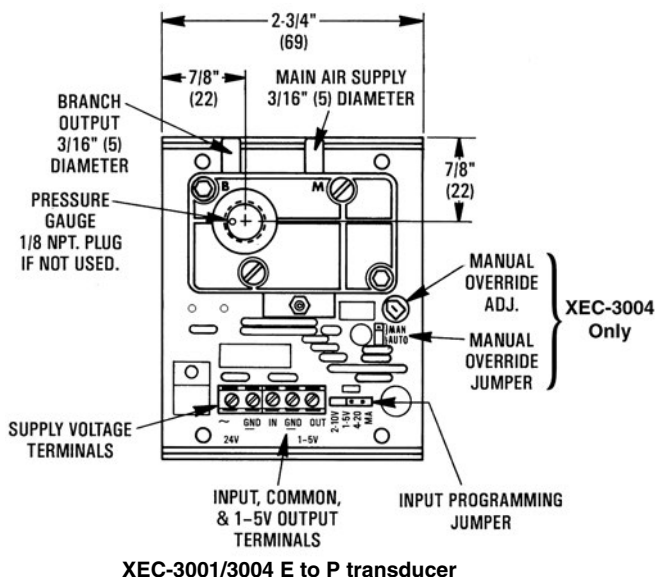
A clean, dry, oil-free main air supply is required for proper operation. An internal, non-replaceable filter is used. If air supply contamination is suspected, use an external HFO-0006 in-line filter.

The gauge port will accept a 1/8" male NPT pressure gauge. This allows direct reading of the pressure output. This port must be plugged if a pressure gauge is not required.

1. Connect the 20 psi main air to the "M" port.
2. Connect the "B" port to the controlled device (damper or valve actuator).

XEC-3011

Connect the "B" port to a tube splitting off from the branch line that goes to the controlled device (damper or valve actuator).



Wiring

Power

24 VAC (+20%/-15%, Class 2 Only, 1 VA):

- Transformer phase lead to "~" (phase).
- Neutral lead to "GND" (common).

24 VDC (+66%/-8%, 50 mA):

- Positive to "~" (phase).
- Negative to "GND".

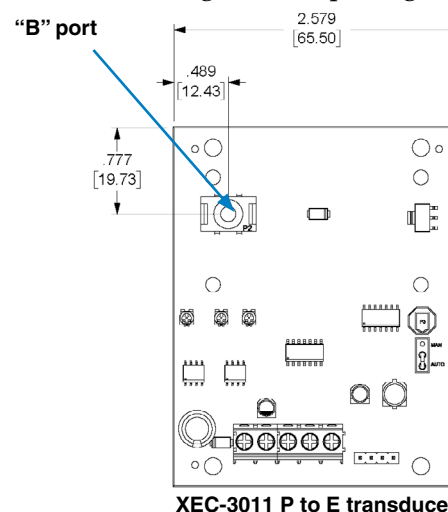
NOTE: Any other device connected to this (Class 2 only) transformer must use the same common. If you are not sure of the other device's polarity, use a separate transformer. If the shared device is a coil, use a spike-snubbing device across the coil to prevent possible malfunctions.

Input and Output (XEC-3001/3004)

1. Position Input Program Jumper to 1-5 VDC, 2-10 VDC, or 4-20 mA.
2. Connect the input signal wiring, positive to "IN" and negative to "GND".
3. Connect the output feedback signal (if required) positive to "OUT 1-5" and negative to "GND".

Output (XEC-3011)

1. Connect the positive output signal to "OUT 1-5".
2. Connect the negative output signal to "GND".



Adjustments

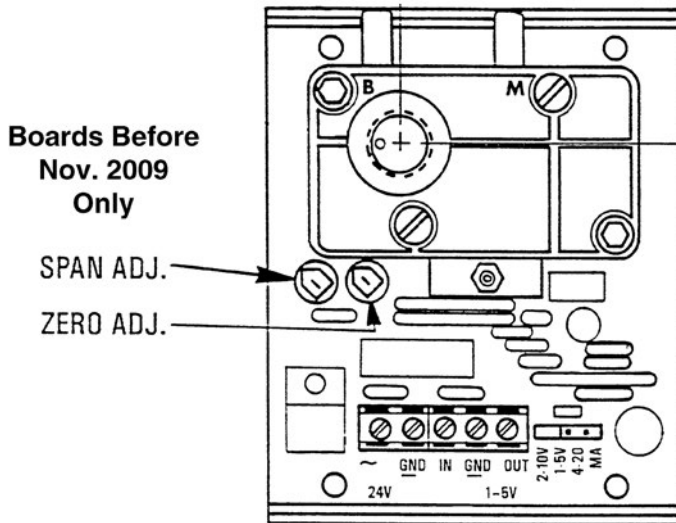
Manual Override (XEC-3004 Only)

1. Move the “MAN/AUTO” jumper from “AUTO” to “MAN.” (See the illustration on page 1.)
2. Adjust the potentiometer for desired output by observing gauge or the 1–5 VDC output signal.

Span and Zero (XEC-3001/3044 Only)

The “Span and “Zero” adjustments are factory-set and should never need adjusting. On boards manufactured **before Nov. 2009** (only), this calibration may be adjusted slightly as follows:

1. Disconnect the main air.
2. Adjust the “ZERO” potentiometer to 0.1 VDC feedback output.
3. Reconnect the main air.
4. Apply an input voltage of 5.1 or 10.2 VDC or input current of 20.4 mA.
5. Adjust the “SPAN” potentiometer for 15 psi branch output pressure.
6. Apply an input voltage of 3 or 6 VDC or input current of 12 mA.
7. Readjust the “ZERO” potentiometer for 9 psi.



Maintenance

No routine maintenance is required. Each component is designed for dependable, long-term reliability, and performance. Careful installation will also ensure long-term reliability and performance.

⚠ CAUTION

Pneumatic devices must be supplied with clean, dry control air. Any other medium (e.g., oil or moisture contamination) will cause the device to fail.

Models

XEC-3001	E to P module without manual override
XEC-3004	E to P module with manual override
XEC-3011	P to E module

Accessories

HFO-0006	In-line air filter
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For **other accessories**, such as connectors, tubing, fittings, and filters, see the [pneumatic accessories](#) page on the KMC Controls website.

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