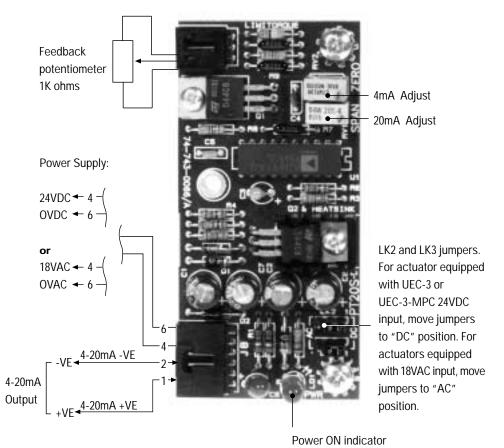
## **Position Transmitter**

# Calibration Instructions

For use with non-UEC controls only; to use with UEC-3 controllers, please see bulletin 440-12000, UEC-3 Operation Manual



## **Specification**

## Output signal

• 4-20mA

### Input potentiometer

• 1K (ohms)

#### Temperature rating

• -40 to +85°C

## Linearity error

• ±1% max.

#### Loop resistance

• 370 (ohms) max.

#### Power

• 18 VAC or 24 VDC ± 10% (LK2 and LK3 must be set appropriately)

#### Important note

Analog inputs must not be connected to earth ground on +VE or -VE terminal.

## **Calibration procedure**

- 1. Position the actuator to mid-travel (valve at 50% Position).
- 2. Disconnect the potentiometer wiring harness from the PT20SD board and measure the resistance from each End connection to the center connection on the potentiometer.
- 3. To set the potentiometer to the correct resistance reading, loosen the setscrew that retains the spur gear on the potentiometer shaft and rotate the shaft until a reading of 500(ohms) is acheived.
- 4. Tighten the setscrew and reconnect the wiring harness to the PT20SD.
- 5. Run the actuator fully CLOSED.
- 6. Calibrate ZERO position by adjusting the zero potentiometer until a 4mA output signal is read at terminals +VE and -VE.
- 7. Run the actuator fully OPEN.
- 8. Calibrate SPAN position by adjusting the span potentiometer until a 20mA output signal is read at terminals +VE and -VE.
- 9. Repeat steps 5 to 8 and fine-tune as necessary.



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