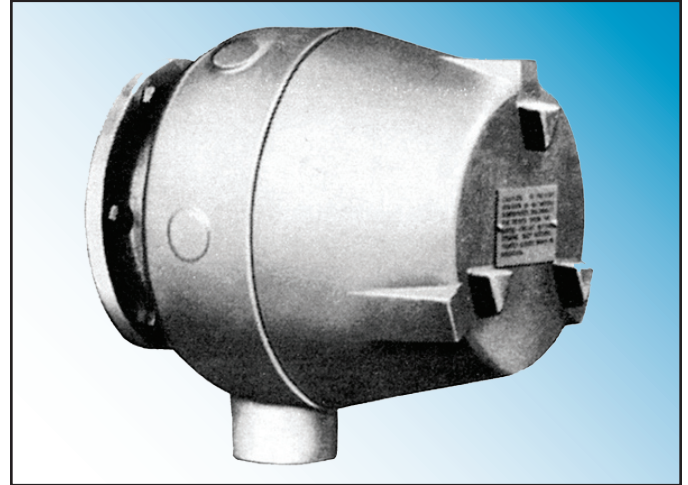


- 4 - 20mA DC Output Signal
- Explosion-Proof Housing
- Potentiometer Type Transmitter
- Accuracy of $\pm 1\%$ of Full Range



General Description

The Model 31490 Rotary Position Transmitter is a potentiometer type transmitter which transmits field information to a remote point.

The Model 31490 Rotary Position Transmitter is used principally as a feedback for valve actuators.

The 31490 accepts a shaft position and produces a 4-20mA electrical output signal over a 2 wire system. The signal from shaft rotation is produced by a potentiometer. The shaft of the potentiometer is connected to the transmitter input shaft through a stepdown gear. The 4-20mA is generated by a constant current generator.

The transmitter is housed in an aluminum, weatherproof and explosion proof housing built to Class I, Division I, Group D requirements of Factory Mutual. Temperature Range is from -30°F to +140°F.

Specifications

Input Power

Transmitter

24V DC at 20mA with
0-600 ohm line & load resistance
48V DC at 20mA with 600-1200
ohm line & load resistance

Input Signal.....Shaft Position
Output Signal.....4-20mA DC
Output Load Impedance.....0-1200 ohms
Range.....5 to 120 feet (10 foot increments)
Wiring.....Two conductors
Accuracy..... $\pm 1\%$ of full range