

0-100% Valve Position Transmitters

AccuTrak® RS & CS Position Transmitters

Westlock transmitter options combine local visual display with remote electronic signaling for continuous flow device status. Point-to-point limit switch signaling is integrated with on-site visual monitoring and full range analog position transmission in one compact NEMA 4 or explosionproof enclosure.

RS: A 1000 ohm or 10,000 ohm analog resistive output proportional to valve position.

CS: A 4-20 mA analog current output proportional to valve position. The CS current transmitter features the latest technology in solid state transmitter design and operates with one of the lowest operating voltages in the industry (5 VDC) with a maximum load resistance of 1650 ohms at 38 volts DC.



CS Transmitter

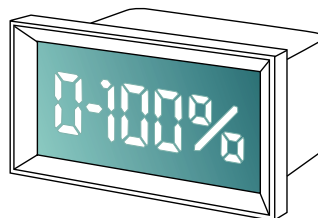


RS Transmitter

User Design Flexibility

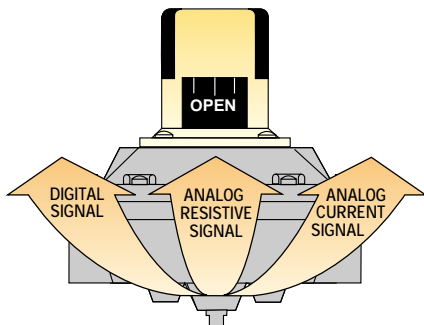
The Westlock Dual Display Monitor allows a user the flexibility to design a valve monitoring system around processing requirements as the need for additional information is required. The Full Range AccuTrak offers design and operating personnel the following distinct advantages.

- 0-100% readout of valve travel is continuously monitored by an analog output signal. By combining an analog current output signal with two limit switches, the AccuTrak now offers complete travel range display, accuracy and speed of response. Additionally, a 1000 ohm resistive analog output, proportional to valve position, can be provided for continuous remote monitoring, trend analysis, or computer interface.
- Limit switches for positive end position monitoring of valve travel.
- Local mechanical display of valve position throughout the full range of travel.



The RS and CS options monitor valves throughout a 0-100% range. At full open or closed, switches will confirm end position limits.

AccuTrak® RS & CS Position Transmitters



4-20 mA Transmitter

- Precision analog position transmitter.
- Operates with any voltage from 5 to 38 volts DC.
- Polarity Independent.
- Transient protected.
- Easy set up, non-interactive adjustment.
- CW and CCW rotation easily accommodated.
- Accommodates long cable runs and multiple receivers.
- Available with proximity sensors or mechanical switches.

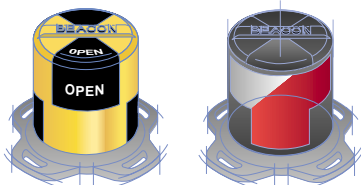
RS POSITION TRANSMITTER (RESISTIVE)

Standard Output Signal	1000 ohms
Power Rating At 70* C	1 watt
Elements	Conductive Plastic
Rotational Life (no load)	100,000 cycles

CS POSITION TRANSMITTER (CURRENT)

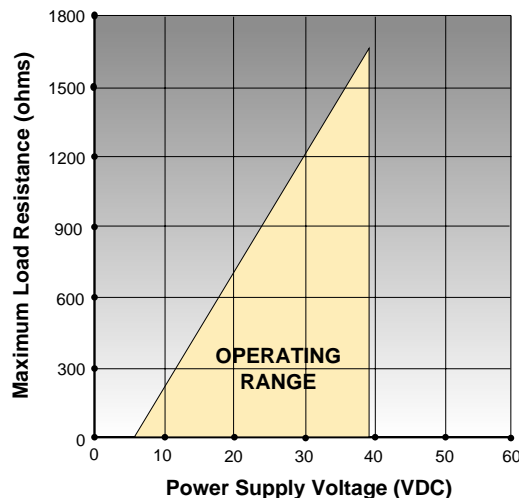
Power Supply Range:	5 volts DC to 38 volts DC
Operating Temperature Range:	-24°C to 85°C
Recommended Power Supply:	24 volts DC
Output Signal Range:	4 to 20 milliamperes DC
Load Impedance:	0 to 950 ohms at 24 volts DC
Output Current Limit:	55 milliamperes DC
Ambient Temperature:	For a 100°C change in ambient temperature. The maximum zero shift is plus or minus .3%, and the maximum span shift is plus or minus .4% of span.
Maximum Rotation:	95°
Minimum Rotation:	45°
Linearity:	Plus or minus 1.0%
Hysteresis:	.55% of full scale
Repeatability:	Plus or minus .3% of full scale
Power Supply:	Output signal changes .018% when the supply voltage is varied between 5 and 38 volts DC.

On-Site Graphic Display



Every AccuTrak is equipped with a Beacon High Visibility Position Monitor. Valve position is recognizable from distances up to 150 feet.

$$\text{Maximum Load Resistance} = \frac{\text{Power Supply Voltage} - 5\text{VDC}}{20 \text{ mA}}$$



ORDERING GUIDE

Order standard units as required and request Transmitter Option by part number.

- RS** Resistive Output Signal
- CS** Current Output Signal