

DIGITAL EPIC CONTROL TRANSMITTERS

EXPLOSIONPROOF/FLAMEPROOF - ATEX/IEC

Discrete position control and precision, non-contact position feedback with digital communication via HART® protocol in an explosion proof, integrated package. With options for linear or rotary control valves and remote PST/ESD initiation.



TECHNICAL DATA

Agency approvals

Area classification (ATEX/IEC)

All models

Ex II 2 D Ex tb IIIC T* Db IP6X Tamb -*°C to +*°C

Enclosure standards (IEC)

All models (without solenoid valve)

Enclosure

D460 D470

Ex II 2 G Ex d IIC T* Gb Tamb -*°C to +*°C

IP67 & IP68 (20 m for 24 hours)

Aluminum

Stainless steel

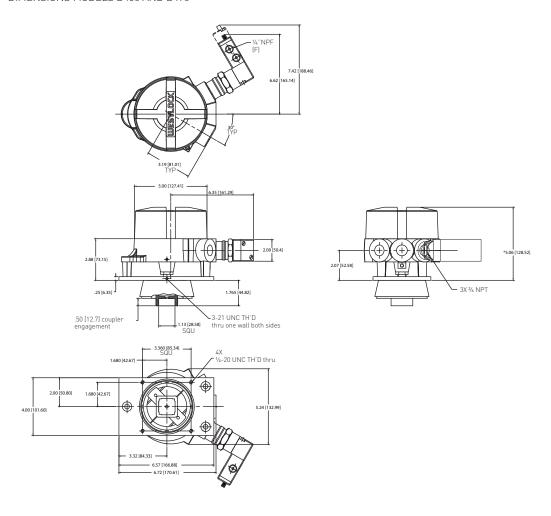
FEATURES

- Microprocessor based technology allows digital communication via HART® protocol.
- Remote and local partial stroke test (PST) and emergency shut down (ESD) initiated remotely via HART® signal for safety system applications.
- Valve position measurement via a noncontact magnetic pick-up eliminates mechanical drive arms or linkages increasing reliability in high cycle applications or where vibration is present.
- Highly visible position indicator.
- Available with low power Falcon solenoid valve.
- Solenoid coils integrated within enclosure.
- Choice of factory pre-wired 3 and 4 way Falcon solenoid valves.
- Solenoid valves with a choice of C_v ratings and coil voltage.
- Model D460 features a low copper aluminum enclosure with powder coat finish.
- Model D470 features a heavy duty stainless steel enclosure.

GENERAL APPLICATION

Digital EPIC position transmitters are ideal for applications with sophisticated process patterns and those that require partial stroke testing (PST) or remote emergency shut down (ESD) initiation.

DIMENSIONS MODELS D460 AND D470



Dimension in inches, metric dimension (mm) in parentheses Solenoid valve dimensions are indicative only and are dependent on solenoid valve selected.

TECHNICAL SPECIFICATIONS

Materials of construction

Enclosure	
Model D460	Aluminum with powder coat finish
Model D470	Stainless steel with electropolished finish
Hardware	Stainless steel

Please consult your sales office for any other requirements

NOTES

Conduit entries

Digital EPIC position and control transmitters are available with a choice of conduit entries. Please see the selection guide for standard entries.

Solenoid valves

The Falcon range of solenoid valves allows you to choose the material, voltage, number of ports, number of coils and $C_{\rm V}$ to best suit your application. See the Falcon data sheet for more information.

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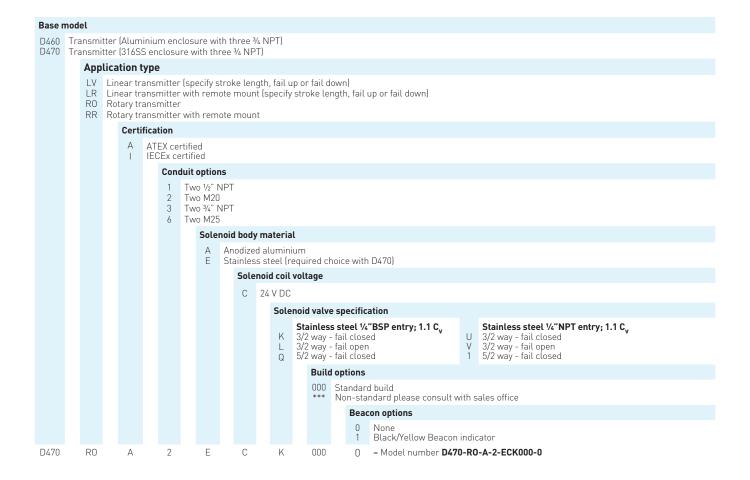
Conduit entries	M20, M25, 1/2"NPT, ¾" NPT
Output	4 - 20 mA proportional to valve position
Terminal voltage required	10 to 30 V
Linearity*	± 1.0% F.S.
Span adjustment	60° to 120°
Zero adjustment	30% of calibration span
Resolution	≤ 0.05% F.S.
Hysteresis	Negligible
Standard operating temperature range**	-40°C to +85°C
Temperature effect	< 0.01% F.S./°C
Humidity	10% to 90% non-condensing
Voltage effect	< 0.2% F.S. from 10 V DC to 30 V DC
Reverse polarity	Protected
Mounting attitude	Any position
Startup stabilization	0.5 seconds
Output update rate	25 ms

NOTES

- * Linearity is applicable for stroke 2" and under for linear application.
- ** Standard Falcon valve operating temperature range -4°F to +185°F, with optional -40°C to +85°C

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SELECTION GUIDE



NOTES

Specifying your control transmitter

Specifying a control transmitter is a complex process as there are many variables which affect each individual application. To ensure that you receive the best possible combination for your control and monitoring requirement, please contact your local sales office for advice and quidance from one of our experts.

Hazardous area classification

Please see our data sheet for further information on the global standards affecting the specification and installation of equipment in hazardous areas.



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Westlock. We reserve the right to change designs and specifications without notice.