

ELECTRIC PILOT CONTROLLER

APPLICATION:

The Electronic Pilot Controller is used in any application where a 4-20mA valve actuator can be controlled by reading a 4-20mA sensor.

FEATURES

- Multiple control schemes
- * PID Control (Pressure Reducing or Back Pressure)
- * High Limit shutdown
- * Low Limit shutdown
- *GAP Control (example: plunger lift application)
- * High Low shutdown
- Multiple applications
- * Pressure control
- * Flow control
- * Temperature control
- * Level control

Powered from actuator supply

Reverse Battery Protection

Bright OLED display technology

User-friendly menus for installation/operation

PID Autotuning available for ease of installation

CONSTRUCTION:

Cast aluminum housing for hazardous location areas.

OPERATION:

The Electronic Pilot receives an analog (4-20mA) signal from a sensor which measures a process valve. The signal is conditioned and sent to an electronically controlled valve via 4-20mA output signal. A PID control loop is utilized along with auto-tune and manual tuning capabilities. The pilot can connect directly to an electric actuator and share a common input power source.

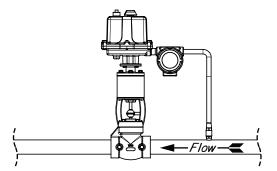
INSTALLATION AND COMMISSION:

- 1) Mount appropriate hardware
- 2) Specify sensor using the menu
- 3) Select control scheme
- 4) Perform auto-tuning or manual-tuning

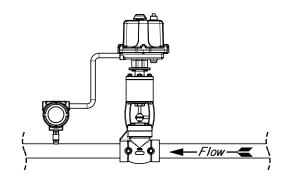
CERTIFICATIONS:

CSA HAZARDOUS LOCATION Class I, Div 1, Groups B, C, D Class II, Groups E, F, G Class III, T6 Type 4X enclosure, IP66 rated

IECEX/ATEX (see label) Ex db IIC T6 Gb Ex tb IIIC T80°C Db TA = -40°C to 60°C IP66



BACK PRESSURE INSTALLATION



PRESSURE REDUCING INSTALLATION

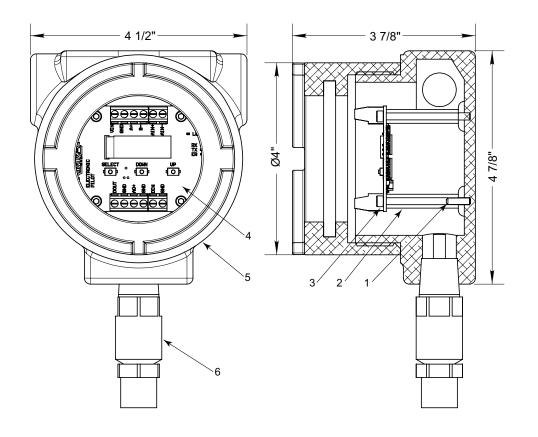
ELECTRICAL RATINGS				
	Min	Max	Units	
Input Voltage (VIN)	10	30	VDC	
Input Current	0.05	0.10	ADC	
Ambient Temperature	-40	60	°C	
Ambient Temperature	-40	140	°F	
Analog input From Sensor	4-20 mA (powered by VIN)			
Discrete input	Dry Contacts only			
Analog Output to Actuator	4-20 mA (powered by VIN)			
Communications	RS-485 (MODBUS RTU)			
Discrete Output	0 VDC or VIN, up to 1A			



Order Code	Description
YEP	ELECTRIC PILOT CONTROLLER



ELECTRIC PILOT CONTROLLER DRAWING & PARTS LIST



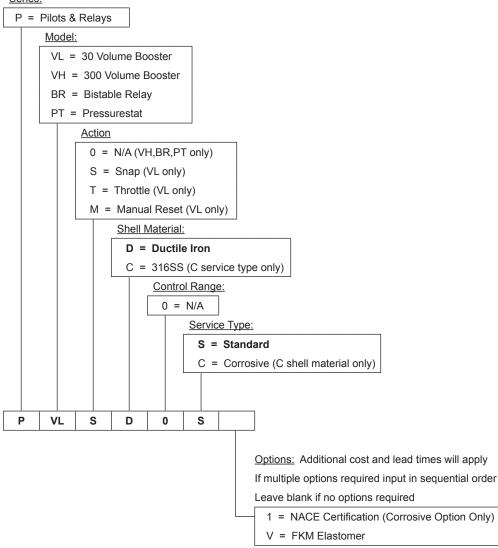
ITEM	QTY.	DESCRIPTION	PART NO
1	4	SET SCREW 6-32	7472A
2	4	PCB STANDOFF 6-32 x 3/8" HEX	7472B
3	4	6-32 x 1/4 SOCKET HEAD SCREW	7495
4	1	MAIN PCB	KA7509
5	1	ENCLOSURE	7483
6	1	PRESSURE TRANSDUCER	SEE BELOW

ACCESSORIES AVAILABLE				
PART NO	PRESSURE RANGE	DESCRIPTION		
KSW4363090	0-100 psig	PRESSURE TRANSDUCER		
KSGS300PG	0-300 psig	PRESSURE TRANSDUCER		
KSGS750PG	0-750 psig	PRESSURE TRANSDUCER		
KSW4363146	0-2000 psig	PRESSURE TRANSDUCER		
KSGS40CPS	0-4000 psig	PRESSURE TRANSDUCER		
KSGS60CPS	0-6000 psig	PRESSURE TRANSDUCER		
KSW4363163	0-8000 psig	PRESSURE TRANSDUCER		
7513		1/2 NPT CONDUIT PLUG		

CODE BUILDER P SERIES (RELAYS)



Series:



Not all selections available on all products listed. See product pages 01:40.1 - 01:70.2 for available options