SERIES EDA | MERCOID® ELECTRONIC PRESSURE CONTROLLER

FEATURES/BENEFITS

- **Can replace separate gages, two switches and a transmitter in a system saving money, installation time, and panel space with its versatile and compact functionality**
- **Meets simple and complex application needs with fully programmable software**
- **Easily test switch and transmitter output function through the test mode that simulates input over the range without pressuring the system**
- **Protection in case of sensor failure, over pressure, high temperature limit, low temperature limit, or keypad short with fail-safe relay output choices**
- **Even wear on duplex pump applications via selectable alternation of the set points between relays**
- **Ideal for a wide variety of applications with panel mount,flush mount, or pipe mount ability due to its rugged weatherproof housing**
- **Eliminate the need of a step down transformer with the -HV 120/240 VAC power option**

APPLICATIONS

- Process control
- Compressor control
- Filter status
- Duct or building static pressure
- Damper and fan control

DESCRIPTION

Series EDA Electronic Pressure Control is an extremely versatile compact package that can replace a separate gage, two switches, and a transmitter in a system saving money, installation time, and panel space. The EDA incorporates two SPDT relays that have the on and off points fully adjustable over the range for control or alarm use. Front face has LED indicators for switch status and a large backlight two-line display showing process value and indication units. Programming is easy with simple menu structure, two-line display, and external programming buttons. Weatherproof housing is ideal for a wide variety of applications with panel mount, flush mount, or pipe mount ability.

SPECIFICATIONS

Service	Compatible liquids and gases.
Wetted Materials	316L SS.
Housing	Glass filled plastic.
Accuracy	±1% of FS including linearity, hysteresis, and repeatability (indicator and transmitter).
Stability	< ±2% of FS per year.
Pressure Limits	1.5 x range.
Temperature Limits	Ambient: 20 to 140°F (-6.6 to 60°C); Process: 0 to 176°F (-18 to 80°C).
Compensated Temperature Limits	32 to 122°F (0 to 50°C).
Thermal Effect	±0.05% of F.S./°F.
Display	4-digit backlit LCD (Digits: 0.60″ H x 0.33″ W).
Power Requirements	12-28 VDC/AC 50/60 Hz. (Can work at 8 VDC for 45 s). For T5 option: 14-30 VDC/AC 50/60 Hz. For -HV option: 120-240 VAC.
Power Consumption	12-28 VDC/VAC: 2.5 watts; 120-240 VAC: 4.5 watts.
Electrical Connections	Removable terminal blocks with 1/2″ female NPT conduit connections.
Enclosure Rating	Meets NEMA 4X (IP65).
Warm Up Time	<10 s.
Mounting Orientation	Any position.
Weight	1.18 lb (535 g).
Agency Approvals	CE, UL.

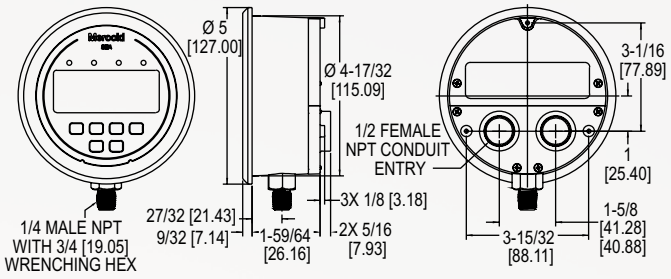
SWITCH SPECIFICATIONS

Switch Type	2 SPDT relays.
Electrical Rating	5 A @ 120/240 VAC, 1 A @ 30 VDC.
Repeatability	±1% of FS (switching only).
Set Points	Adjustable 0-100% of FS.
Switch Indication	External LED for each relay on the front panel.
Switch Reset	Manual or automatic.

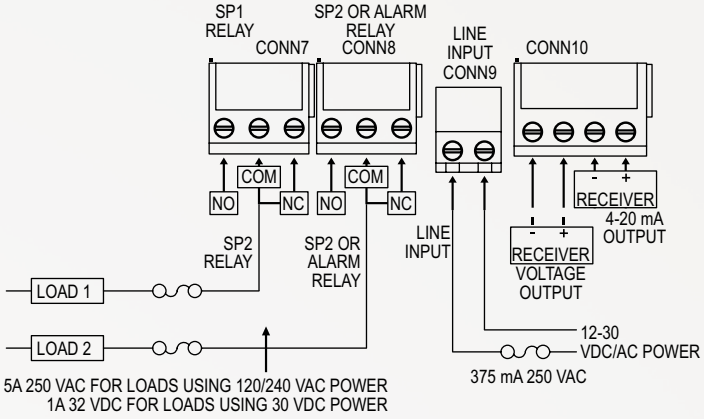
TRANSMITTER SPECIFICATIONS

Output Signal	4-20 mA, 1-6 VDC, 1-5 VDC, or 0-10 VDC (direct or reverse output selection).
Minimum Excitation	14 VDC.
Zero and Span Adjustments	Menu scalable within the range.

DIMENSIONS



WIRING DIAGRAM



HOW TO ORDER

Use the **bold** characters from the chart below to construct a product code.

EDA **W** **-N1** **E1** **-02** **T3** **-NIST**

SERIES
EDA: Electronic pressure controller

HOUSING
W: Weatherproof

PROCESS CONNECTION
-N1: 1/4″ male NPT

CONDUIT CONNECTION
E1: Two 1/2″ NPT

OPTIONS
-AT: Aluminum adhesive tag
-HV: 120-240 VAC power
-NIST: NIST certificate
-P: 1/2 NPSM conduit plug

TRANSMITTER OUTPUT
T0: None
T1: 4-20 mA
T2: 1-5 VDC
T3: 0-5 VDC
T4: 1-6 VDC
T5: 0-10 VDC

RANGE
-02: 0-20 psig
-03: 0-60 psig
-04: 0-100 psig
-05: 0-150 psig
-06: 0-300 psig
-07: 0-600 psig
-08: 0-1000 psig
-09: 0-1500 psig
-10: 0-3000 psig

ACCESSORIES

Model	Description
A-590	1/2″ conduit plug, watertight
A-EDA-BRK	Flush mount bracket for EDA, bracket is then surface mounted, steel with gray hammertone epoxy finish

ORDER ONLINE TODAY!

dwyer-inst.com/Product/SeriesEDA

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DS-EDA Rev. 3