

# **Series EDA Electronic Pressure Controller**

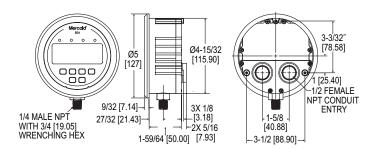
**Specifications - Installation and Operating Instructions** 



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# **SPECIFICATIONS**

Service: Compatible liquids and gases.

Wetted Materials: 316L SS. Housing: Polycarbonate.

Accuracy: ±1% of FS including linearity, hysteresis, and repeatability (indicator and

transmitter).

Stability: < ±2% of FS per year.

Pressure Limits: Ranges up to 6,000 psi: 1.5 x range; 8,000 psi range: 10,000 psi. 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 FS/°F.

Process Connection: 1/4" NPT male, 1/4" BSPT male, or 7/16" SAE.

Display: 4-digit backlit LCD (Digits: 0.60" H x 0.33" W).

Display Update: 600 ms (dampening set to 1).

Power Requirements: 12-28 VDC (==-) / AC ( ~ ) 50/60 Hz. (Can work at 8 VDC (==-) for 45 seconds). 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 two 1/2" female NPS

conduit connections.

Enclosure Rating: Weatherproof type 4X IP65 (IP65 not evaluated by UL).

Warm Up Time: <10 seconds.

Mounting Orientation: Any position.

Weight: 1.18 lbs (535 g).

Installation Category: II (transient over-voltage).

Pollution Degree: 2.

Altitude Limit: 6560 ft (2000 m) max.

Environment: Intended for indoor and outdoor use.

**Humidity:** 0 to 95% RH up to 104°F (40°C) non-condensing, 10 to 50% at 140°F

(60°C) non-condensing.

#### **SWITCH SPECIFICATIONS**

Switch Type: 2 SPDT relays.

Electrical Rating: 5A @ 120/240 VAC (~) 50/60 Hz, 1A @ 28 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 (---), 0-5 VDC (---), or 0-10 VDC

(===)(direct or reverse output selection). **Minimum Excitation:** 14 VDC (===).

Zero and Span Adjustments: Menu scalable within the range.

MODEL CHART								
Example	EDA	W	-N1	E1	-01	T0	-NIST	EDAW-N1E1-01T0-NIST
Series	EDA							Electronic pressure controller
Housing		W						Weatherproof
Process Connection			N1					1/4" male NPT
Conduit Connection				E1				Two 1/2" NPT
Range					01 02 03 04 05 06 07 08 09 10			0-30 in hg VAC 0-20 psig 0-60 psig 0-100 psig 0-150 psig 0-300 psig 0-300 psig 0-1000 psig 0-1000 psig 0-1500 psig 0-3000 psig
Transmitter Output						T0 T1 T2 T3 T4 T5		None 4-20 mA 1-5 VDC 0-5 VDC 1-6 VDC 0-10 VDC
Options							AT NIST P 23444 HV	Stainless steel tag NIST certificate 1/2 NPSM conduit plug Oxygen cleaning 120-240 VAC power

# Display

The EĎA has two displays: a lower larger display and a smaller upper display. The Home Display is the normal display while the control is in operation if there are no errors or functions active. The Home display will indicate the process variable at the current condition with the lower display and the selected pressure units for the process variable with the upper display. When programming the unit both displays are also used. The Programming Chart in this instruction manual indicates what both displays show while programming the unit. For programming descriptions in this instruction manual the format used is "lower display – upper display". For example Ctrl – 1SP shows that Ctrl would be in the lower display and 1SP would be in the upper display.

When the user presses the E key to edit an item's value the upper display will flash "EDIT" and the lower display will blink. When the user presses the E key to then save the edit to the value the upper display will flash "SAVE" and the lower display will stop blinking.

#### 1.0 INSTALLATION

#### 1.1 UNPACKING

Remove the EDA from the shipping carton and inspect for damage. If damage is found, notify the carrier immediately.

#### 1.2 MOUNTING

The EDA can be pipe, panel, or surface mounted. For pipe mounting thread the unit into a mating female fitting on the pipe. Use a wrench on the 3/4" hex at the base of the housing to tighten the unit to the mating fitting. Do not thread the unit in by force on the housing. For panel mounting, insert the unit into the panel opening and secure in place with the machine screws and adapters provided with the unit as shown in Figure 1 below. Maximum panel thickness is 1/8" (3.5 mm) with supplied screws. For surface mounting, panel mount the unit into the A-EDA-BRK mounting bracket (See the Dwyer catalog or website for ordering details) also shown in Figure 1. The unit can also be directly surface mounted, as shown in Figure 2, with the proper panel cutout for the conduit entrances. Support the pressure connection hex with a wrench if attaching a fitting to the unit in the case of panel or flush mounting so that the pressure connection does not twist. Use a small amount of plumber's tape or other suitable sealants to prevent leaks around fitting.

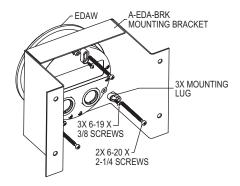


Figure 1: Panel mounting and mounting in A-EDA-BRK bracket

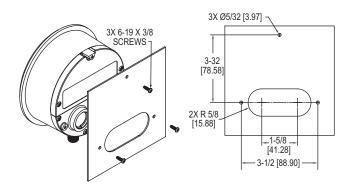


Figure 2: Surface Mounting

#### 1.3 ELECTRICAL CONNECTIONS

CAUTION

▲ DANGER ELECTRIC SHOCK HAZARD. DISCONNECT POWER BEFORE MAKING ELECTRICAL CONNECTIONS. Failure to do so will result in injury or death.

**CAUTION EQUIPMENT DAMAGE.** Do not exceed the specified supply voltage rating. Failure to do so may result in permanent equipment damage.

**EQUIPMENT DAMAGE.** Do not allow wire to touch or press on PCBA components when fishing

wire through the conduit connection. Failure to do so may result in damage to the circuitry.

NOTICE

To maintain Type 4X rating of the enclosure, 1/2 NPT conduit fittings must have a UL Type 4X outdoor rating.

Note: Installation must be made in accordance with local codes and regulations.

Electrical connections are made to the removable terminal blocks inside the enclosure. Remove the top back cover, do not remove bottom cover. Feed stripped and tinned leads through the conduit opening and connect them as shown in Figure 3. The EDA provides two  $1/2^{\circ}$  NPT female ports for conduit connection. The conduit connections must be made such that condensation is not allowed to enter the sensor housing. If necessary install a conduit breather drain in a separate conduit body to prevent buildup of moisture. It is recommended that shielded twisted pair wire be used for the transmitter output option if the potential exists for interference from external noise sources. When replacing top back cover tighten screws to  $2 \pm .25$  in lbs.

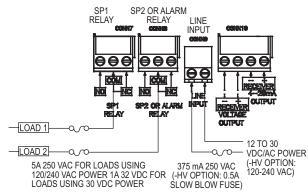


Figure 3: Wiring

An external power supply of 12-28 VDC/AC with minimum current capability of 200 mA must be used to power the unit (-HV option must be 120-240 VAC). The power supply connection is not polarity sensitive so the positive and negative connections may be made to either terminal of CONN9 terminal block.

For voltage output option, connect the voltage receiver (-) to terminal 1 and voltage receiver (+) to terminal 2 of the CONN10 terminal block. For current output option, connect the current receiver (-) to terminal 3 and current receiver (+) to terminal 4 of CONN10 terminal block. DO NOT APPLY EXTERNAL POWER TO CONN10 TERMINALS -PERMANENT DAMAGE NOT COVERED BY WARRANTY WILL RESULT.

Loads can be connected to connectors CONN7 and CONN8 terminal blocks based on the Control settings:

- For single set point mode (CtrL-1SP), connect the Load to SP1 relay (CONN7).
- For two set points mode (CtrL-2SP), connect the Load1 to SP1 relay (CONN7) and Load2 to SP2 relay (CONN8).
- For single set point and alarm mode (CtrL-SPAL), connect the Load1 to SP1 relay (CONN7) and Load2 to ALARM relay (CONN8).

# Wiring

An external switch or circuit breaker should be added to during the installation as a disconnecting device. The switch or circuit breaker must meet the requirements of IEC 60947-1 and IEC 60947-3, shall disconnect all current carrying conductors, and shall not interrupt the protective earth ground. The disconnecting switch or circuit breaker must be marked or labeled with the symbols "i" for on and "O" for off, per IEC 60417-5007 & IEC 60417-5008 and shall be marked as "Disconnecting Device". Do not position the EDA in a space where it is difficult to operate the disconnecting device that provides power. 300 V 18 AWG/0.75 mm² wiring with PVC or equivalent insulation with 94-V0 or FV-0 flammability rating is recommended for the switch outputs and power. Use only copper wire rated to 60°C minimum. Terminal blocks rated for 16-22 solid or stranded copper conductor. 6 lb in is suggested tightening torque.

NOTICE

As a permanently installed piece of equipment, a power disconnect switch, circuit breaker, or other approved disconnect device must be installed in close proximity to the installed board and within easy reach of the operator. This disconnect device must include a label indicating its function as a mains disconnect. A circuit breaker or fuse device is recommended (see Figure 3).

# **Explanation of Symbols:**

Symbol	Publication	Description
===	IEC 50417 - 5031	Direct current
~	IEC 50417 - 5032	Alternating current
-	IEC 50417 - 5019	Protective conductor terminal
	IEC 50417 - 5007	On (supply)
O	IEC 50417 - 5008	Off (supply)

# 2. OPERATING INSTRUCTIONS

# 2.1 FRONT PANEL & KEY FUNCTIONS

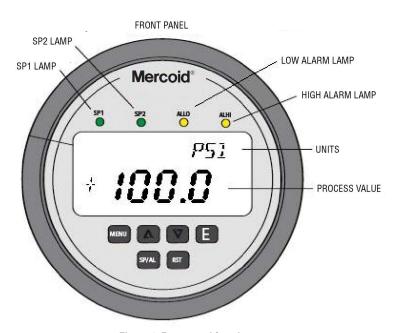


Figure 4: Front panel functions

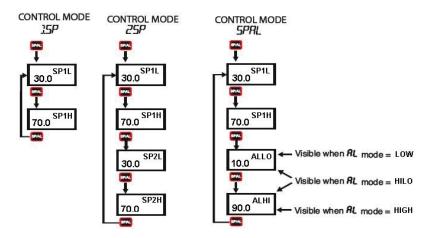
Key Fu	nctions		
	Home Position Function	Main Menu Function	Item Function
SP/AL SP/AL	Sequences the display through SET POINT and ALARM settings	Return to home position	Return to home position
MENU MENU	Allows access to menus	Return to home position	Return to previous menu
UP ARROW		Sequences through menus	Increments a value
DOWN ARROW		Sequences through menus	Increments a value
ENTER	Displays full scale range of unit	Enter into items	Changes a value or setting. Press Enter and display will blink. Adjust with UP or DOWN arrows. Press ENTER to store. Display will stop blinking.
RST RESET	Clears or resets an Alarm (alarm set for manual reset)		Peak/Valley resets display to present value.

#### 2.2 SET POINTS & ALARMS

# **Setting Set Points and Alarms**

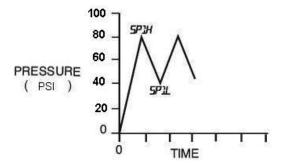
The hot key provides direct access to the Set Point and Alarm settings.

The Set Point and Alarm settings that are displayed are based upon the Control (CtrL) menu item.

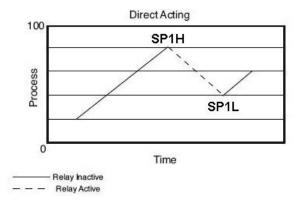


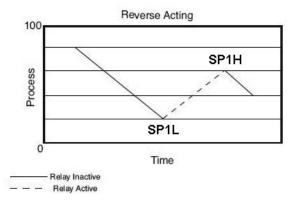
# Set Point Adjustment

Adjusting the set points is quick and simple. Instead of setting a set point and dead band, simply adjust SP1H, Set Point 1 High, and SP2H, Set Point 2 High, for the desired relay turn on point, and then adjust SP1L, Set Point 1 Low, and SP2L, Set Point 2 Low, for the desired relay turn off point.



In the above graph, an instrument with a 100 psi range would have the **SP1** relay turn ON at 80 psi and OFF at 40 psi. **SP1H** sets the relay turn ON point, and **SP1L** sets the relay turn OFF point.





The relays outputs normally function in the direct acting mode, which means the relays turn ON with an increase in pressure. SP1 and SP2 may be configured to act as reverse acting relays (refer to the CtrL menu item). When set for reverse acting, SP1H and SP2H set the relay turn OFF point, and SP1L and SP2L set the relay turn ON point. The above graph demonstrates direct and reverse action on process (pressure) change.

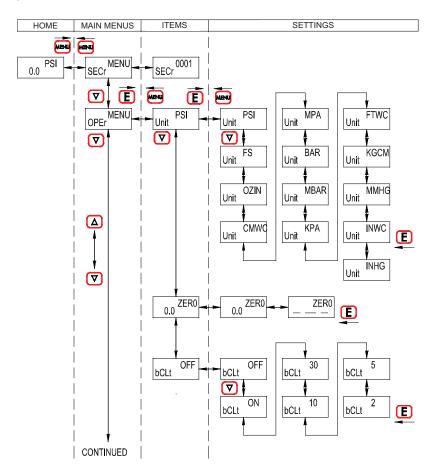
# Alternating (Lead/Lag) Operation

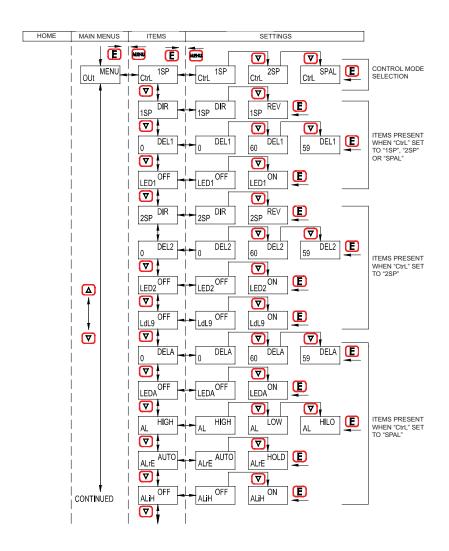
The EDA is designed to easily operate a pair of pumps in an alternating operation to minimize pump wear. The unit has programmable on and off set points for pump one and two. If the lead/lag feature is turned off then the relays remain attached to their corresponding set points, SP1H and SP1L control relay 1 (pump 1) and SP2H and SP2L control relay 2 (pump 2). There is no alternating function.

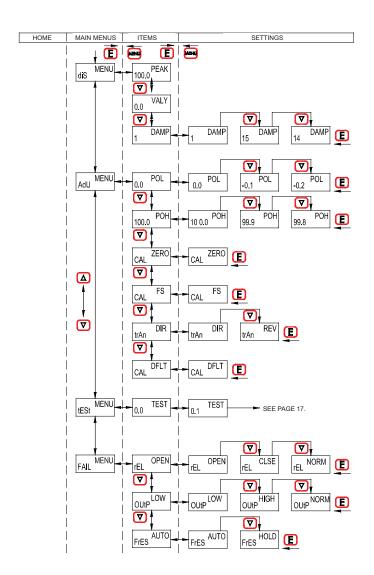
If lead/lag feature is turned on then the relays will alternate with set points SP1H and SP1L to SP2H and SP2L with every cycle of set points. The Last relay turned off will be last relay turned on with the next cycle. On the first cycle on increase of pressure, assuming direct acting, the SP1 relay (pump 1) will come on and then on further increase of pressure the SP2 relay (pump 2) will come on. On the subsequent decrease of pressure the SP2 relay (pump 2) will come off and then the SP1 relay (pump 1) will come off. When pressure increases on the next cycle the relay used on the last cycle for SP2 will now be used for SP1, so that SP1 now controls pump 2 and SP2 now controls pump 1. Even if SP2 is not used on the pressure cycle the relays still alternate on next cycle.

# 2.3 PROGRAMMING CHART

# MENU MAP







#### 2.4 MAIN MENU SELECTIONS

#### Menu Selections

Press the **MENU** button to start the menu so that the upper right displays reads **MENU**. Press the ▼ key to advance to the next menu item. You can press the A key to go back to the previous menu. Press the E key to enter a menu.

SECr Security Menu

Lock out access to set point and alarm settings, or lock out access to all settings.

**OPEr** Operation Menu

Select pressure units, zero the display, and turn the backlight on or off.

Out Output Menu

Select relay mode of operation, alternating function, time delay, and lamp indication.

diS

Monitor and adjust display related settings: Peak, Valley and Dampening.

AdU Advanced Functions Menu

Modify advanced function parameters: transmitter output scaling, direct or reverse output setting,

calibration, or restoring factory default calibration.

tESt

Simulate input over the range without pressure to test switch and transmitter output function.

FAIL Failsafe Menu

> Set the relay and transmitter outputs to certain preset values when failsafe conditions occur. Error codes will show on the display indicating the problem. User chooses if relay is de-energized, energized, or no action taken. With transmitter option, user chooses an output of 3.6 mA, 22 mA, or no action taken.

#### Menus and Values

SECr Security Menu

**SECr** When the security item is selected, the present security level is displayed in the upper right hand display. To change the security level, adjust the number displayed to the password value in the

Password Table, shown below, by pressing the ▲ or ▼ key and then pressing the E key at the desired security level.

Security Level		Password
Displayed	Access	Value to Enter
1	All menus access	10
2	Menu access	70
	SP/AL locked	
3	SP/AL access	90
	Menus locked	
4	All settings locked	111

The password values shown in the table cannot be altered, so retain a copy of these pages for future reference.

### **OPEr** Operation Menu

#### Unit Pressure Units

With the display reading Unit - PSI, press the E key. The upper display will blink. Press the ▼ key to change unit then press E key to save the new unit.

PSI Pounds per square inch

FS % of full scale

OZIN Ounces per square inch
CMWC Centimeters of water column

MPA Megapascals

BAR Bar MBAR Millibar KPA Kilopascals

FTWC Feet of water column

KGCM Kilograms per square centimeter

MMHG Millimeters of mercury
INWC Inches of water column
INHG Inches of mercury

# Pressure Range vs. Available Units

PSI	KG/CM2	BAR	INHg	FTWC	KPA	MPA	INWC	MBAR	CMWC	MMHg	OZ/IN2	% FS
-14.70	-1.033	-1.013	-29.93	-33.94	-101.4	-0.101	-407.3	-1013	-1034	-761	-235.2	100
20.00	1.406	1.379	40.7	46.1	137.9	0.1379	554	1379	1406	1035	320.0	100
60.0	4.22	4.14	122.2	138.4	414	0.414	1663			3105	960	100
100.0	7.03	6.89	203.6	230.7	689	0.689	2771				1600	100
150.0	10.55	10.34	305.4	346.0	1034	1.034					2400	100
300.0	21.09	20.68	611	692	2068	2.068						100
600	42.2	41.4	1222	1384		4.14						100
1000	70.3	68.9	2036	2307		6.89						100
1500	105.5	103.4	3054	3460		10.34						100
3000	210.9	206.8				20.68						100
6000	422	414				41.4						100
8000	562	551				55.1						100

#### ZERO Auto Zero

**Note:** DO NOT apply any pressure when performing this function. With the display reading **xx - ZERO**, press the **E** key. The upper display will blink. Press **E** again to zero the display. The display will read 0.0 if the zero offset is less than ±5% of full scale.

# bCLt Backlight

ON Backlight always on. OFF Backlight always off.

Backlight stays on for 30 minutes.
Backlight stays on for 10 minutes.
Backlight stays on for 5 minutes.
Backlight stays on for 2 minutes.

#### **OUt** Output Menu

CtrL Control Mode

**1SP** Single set point.

**2SP** Two fully independent set points.

**SPAL** Single set point and alarm.

**1SP SP1**, Set Point 1, Reverse or Direct Acting

**DIR** Direct. Relay turns on with increasing pressure. **REV** Reverse. Relay turns on with decreasing pressure.

**DEL1** SP1, Set Point 1, Time Delay

Sets the amount of time a set point condition must be continuously met before the set point condition

is recognized. The **DEL1** delay is adjustable from 0-60 seconds.

LEd1 SP1, Set Point 1, Lamp

**OFF** The **SP1** LED on the front panel turns OFF when the SP1 relay turns OFF.

The **SP1** LED on the front panel turns ON when the SP1 relay turns ON.

**ON** The **SP1** LED on the front panel turns ON when the SP1 relay turns OFF.

The SP1 LED on the front panel turns OFF when the SP1 relay turns ON.

The following SP2 function values are only activated when CtrL is set to 2SP:

**2SP SP2**, Set Point 2, Reverse or Direct Acting

SP2. Set Point 2. time delay

**DIR** Direct. Relay turns on with increasing pressure. REV Reverse. Relay turns on with decreasing pressure.

·

Sets the amount of time a set point condition must be continuously met before the set point condition is recognized. The **DEL2** delay is adjustable from 0-60 seconds.

LEd2 SP2, Set Point 2, Lamp

DFL<sub>2</sub>

**OFF** The **SP2** LED on the front panel turns OFF when the **SP2** relay turns OFF.

The SP2 LED on the front panel turns ON when the SP2 relay turns ON.

ON The SP2 LED on the front panel turns ON when the SP2 relay turns OFF.

The SP2 LED on the front panel turns OFF when the SP2 relay turns ON.

LdL9 Relay Alternation (See page 8)

**OFF** There is no alternating function.

ON Relays will alternate with set points SP1H/L and SP2H/L with every cycle of set points. 2SP

control mode only.

The following alarm function menu items are activated when CtrL is set to SPAL:

# **DELA** Alarm Delay

Sets the amount of time an alarm condition must be continuously met before the alarm condition is recognized. The alarm delay is adjustable from 0 - 60 seconds.

#### LEdA Alarm Lamps

OFF The ALLO LED or ALHI LED on the front panel turns OFF when the alarm relay turns OFF.

The **ALLO** LED or **ALHI** LED on the front panel turns ON when the alarm relay turns ON.

ON The ALLO LED or ALHI LED on the front panel turns ON when the alarm relay turns OFF. The ALLO LED or ALHI LED on the front panel turns OFF when the alarm relay turns ON.

# AL Alarm Type (see Alarm Adjustment below)

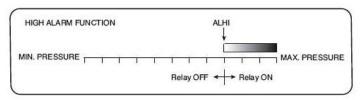
**HIGH** High alarm only.

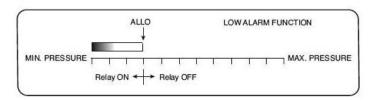
LOW Low alarm only.

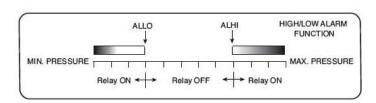
**HILO** For a high and low quard band type alarm. Share the same relay output.

#### **Alarm Adjustment**

Alarm settings are dependent upon the selected alarm type. The EDA pressure controller alarm may be configured as a High Alarm, Low Alarm, or High/Low Alarm. Alarm settings may be set to anywhere within the range of the instrument. The dead bands of the alarms are fixed at 1% of full scale.







# ALrE Alarm Reset

**AUTO** Automatic reset.

**HOLD** Manual reset. An alarm is reset by pressing the **RST** key on the front panel.

#### ALiH Low Alarm Inhibit

**OFF** Alarm inhibit is off.

**ON** Alarm inhibit is on.

**Note:** If **ALiH** is selected ON, a low alarm condition is suspended upon power up until the process value passes through the alarm set point once.

#### diS Display Menu

# PEAK Peak

The Peak feature stores the highest pressure reading the instrument has measured since the last reset or power up. At power up **PEAK** is reset to the present pressure reading. To manually reset the **PEAK** value, press the **RST** (RESET) key while in **PEAK**.

# VALY Valley

The Valley feature stores the lowest pressure reading the instrument has measured since the last reset or power up. At power up **VALY** is reset to the present pressure reading. To manually reset the **VALY** value, press the **RST** (RESET) key while in **VALY**.

#### **DAMP** Dampening

Adjust from 1-15. Dampening stabilizes the display from instabilities due to things such as vibration and excessive pressure fluctuations. The dampening setting adjusts the amount of readings that are averaged for each display update. Adjust the dampening value until the display reads a stable value for the application.

#### AdU Advanced Menu

**POL**, Process Output Low, and **POH**, Process Output High are used to scale the transmitter output for a unit with the output option of 4-20 mA, 0-5 VDC, 0-10 VDC, 1-5 VDC, or 1-6 VDC. Below shows with 4-20 mA output option.

# POL Process Output Low

Set to the desired display reading for the 4 mA output. May be set from 2% below minimum scale up to POH.

# POH Process Output High

Set to the desired display reading for the 20 mA output. May be set from **POL** to 2% above maximum scale.

# CAL – ZERO Zero Calibration

DO NOT apply any pressure when performing this function. With the display reading **CAL - ZERO**, press the **E** key. The upper display will blink. Press the **E** key again to complete the zeroing of the instrument or press the **MENU** key to cancel.

#### CAL - FS Full-scale Calibration

With the display reading **CAL - FS**, apply full-scale pressure to the unit, press the **E** key. The upper display will blink. Press the **E** key again to complete the calibration or press the **MENU** key to cancel.

trAn sets the transmitter output option function for a unit with the output option of 4-20 mA, 0-5 VDC, 0-10 VDC, 1-5 VDC, or 1-6 VDC. Below shows with 4-20 mA output option.

#### trAn

DIR Direct Output. 4 mA output at zero, 20 mA output at full scale pressure.

REV Reverse Output. 20 mA output at zero, 4 mA output at full scale pressure.

# CAL - DFLT Factory Default Calibration

With the display reading **CAL** - **DFLT**, press the **E** key. The upper display will blink. Press **E** again to restore the original factory calibration values or press the **MENU** key to cancel.

#### tESt Test Menu

#### tESt

When selected the unit simulates a pressure input over the range to test the programming and output function. To start an automatic simulated cycling through the pressure range press the  $\mathbf{E}$  key. This test will run continually until the  $\mathbf{E}$  key is pressed again. To manually adjust the simulated pressure press the  $\mathbf{A}$  or  $\mathbf{V}$  key to adjust the pressure value. To exit  $\mathbf{tESt}$  press the  $\mathbf{MENU}$  key.

# FAIL Failsafe Menu

The Failsafe menu is used to set the relay and transmitter outputs to certain preset values when failsafe conditions occur. Error codes will show on the display indicating the problem. See Diagnostic Error Messages on the next page.

# rEL Relay Output Failsafe Condition

OPEN The relay is de-energized upon failsafe condition. The NO contacts will be opened, and the

NC contacts will be closed.

CLSE The relay is energized upon failsafe condition. The NO contacts will be closed, and the NC

contacts will be opened.

**NORM** No change applied to the relay upon failsafe condition.

OUtP sets the transmitter output option failsafe condition for a unit with the output option of 4-20 mA, 0-5 VDC, 0-10 VDC, 1-5 VDC, or 1-6 VDC. See below chart of transmitter output action according to output signal type.

# OUtP Transmitter Output Failsafe Condition

LOW Transmitter output goes to low failsafe condition.

HIGH Transmitter output goes to high failsafe condition.

**NORM** No change applied to transmitter output upon failsafe condition.

<b>Output Signal</b>	4-20 mA	0-5 VDC	0-10 VDC	1-6 VDC	1-5 VDC
LOW	3.6 mA	-0.125 VDC	-0.250 VDC	0.875 VDC	0.9 VDC
HIGH	22 mA	5.625 VDC	11.250 VDC	6.625 VDC	5.5 VDC

# FrEs Failsafe reset

AUTO Automatic reset - Failsafe is reset automatically when the failsafe error condition is removed.

HOLD Manual reset - Failsafe is reset when the MENU key is pressed.

#### 4. DIAGNOSTIC ERROR MESSAGES

Display	Meaning
Err1	Low temperature limit
	A temperature below 0°F has been applied to the sensor
Err2	High temperature limit
	A temperature above 180°F has been applied to the sensor
Err3	Sensor failure
	The micro-controller is receiving invalid signal from the sensor
Err4	Over pressure limit
	Proof pressure have been exceeded
Err5	Keypad short

#### 5. MAINTENANCE/REPAIR

Upon final installation of the Series EDA, inspect and clean with water or damp cloth at regular intervals. The Series EDA is not field serviceable and should be returned if repair is needed (field repair should not be attempted and may void warranty.



This symbol indicates waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.

#### 6. WARRANTY/RETURN

Refer to "Terms and Conditions of Sales" in our catalog and on our website. Contact customer service to receive a Return Goods Authorization number before shipping the product back for repair. Be sure to include a brief description of the problem plus any additional application notes.