D2

EZ Pressure Sensor

Zone Pressure Sensors (ZPS)

CE Rev. 03/03/26

Features & Options

- 10 Pressure Ranges & Five Outputs – All Field Selectable
- Standard Range and Low Range Models (-5 to +5" WC or -1,250 to +1,250 Pascals) (-1 to +1" WC or -250 to +250 Pascals)
- About 1/3rd the Size of Field Mount Pressure Sensors to Save Panel Space
- NIST Traceable Certificate Available at No Extra Charge
- Mounts in DIN Rail, Snaptrack or Directly to the Panel Backplane
- Display That Aids in Troubleshooting by Showing Pressure Over Entire Operational Range



EZ Pressure Sensor

5 YEAR WARRANTY

Specifications

Power:
8 to 40 VDC* (4 to 20 mA Output)
7 to 40 VDC or 6 to 28 VAC (0 to 5 or 1 to 5 VDC Output)
12 to 40 VDC or 9 to 28 VAC (0 to 10 or 2 to 10 VDC Output)

Power Consumption:
20 mA max DC only at 4 to 20 mA Output
4.9 mA max DC at 0 to 5 or 0 to 10 VDC Output
0.12 VA max AC at 0 to 5 or 0 to 10 VDC Output

Load Resistance:
4 to 20 mA Output 850Ω Maximum @ 25 VDC
0 to 5, 1 to 5, 0 to 10, 2 to 10 VDC Output 6KΩ min.

Accuracy: ±0.25% FS at 77°F (25°C) for all units
Low Range: ±0.005" WC (±1.24 Pa)
Standard Range: ±0.025" WC (±6.22 Pa)

Total Error Band:**
Low Range: ±1.25% FS or ±0.025" WC (±6.22 Pa)
Standard Range: ±0.5% FS or ±0.05" WC (±12.44 Pa)

Temp Hysteresis & Stability:
Low Range: ±0.35% at 77°F (25°C) for 1000 Hours
Standard Range: ±0.25% at 77°F (25°C) for 1000 Hours

Overpressure:
Low Range: Proof 270" WC (67 kPa)
Standard Range: Proof 300" WC (74 kPa)

Field Selectable Outputs:
4 to 20 mA, 0 to 5 V, 1 to 5 V, 0 to 10 V, 2 to 10 V

Media: Clean, dry, non-corrosive gases

Wiring: 3 wires (2 wires for 4 to 20 mA output)

Env. Operating Range: 14 to 131°F (-10 to 55°C)

Storage Temp: -4 to 140°F (-20 to 60°C)

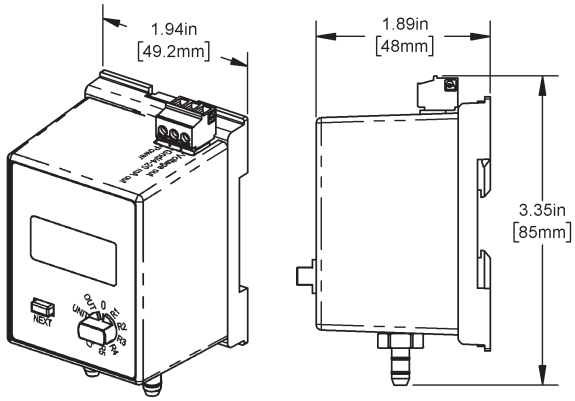
Humidity: 0 to 95% RH, non-condensing

Port Size: 3/16" barb (4.75mm)

Enclosure Material: ABS Plastic, UL94 V-0

Mounting: DIN Rail, Snaptrack or Surface

Agency: RoHS, CE EN 61326-1:2013 EMC



*The minimum input voltage for a 4 to 20 mA unit varies based on the load or input impedance of the controller it is connected to. See the instructions document for more information.

**Total Error Band is the typical accuracy within the compensated temperature range of 32 to 122°F (0 to 50°C). The Total Error Band covers non-linearity, hysteresis and thermal effect on span. This is only valid after the initial startup and auto-zero process has been performed.

Building Automation Products, Inc. • 750 North Royal Avenue, Gays Mills, WI 54631 USA
Tel: +1-608-735-4800 • Fax: +1-608-735-4804 • Email: sales@bapihvac.com • Web: www.bapihvac.com

Ordering Information (for units without a factory specified range or output)

PART NUMBER	DESCRIPTION
ZPS-SR-EZ-NT-IN	.....Standard Range Unit, Inches WC, Display, No Tube or Probe included
ZPS-SR-EZ-NT-PA	....Standard Range Unit, Pascals, Display, No Tube or Probe included
ZPS-SR-EZ-ST-IN	.....Standard Range Unit, Inches WC, Display with Static Pressure Probe
ZPS-SR-EZ-ST-PA	....Standard Range Unit Pascals, Display with Static Pressure Probe
ZPS-LR-EZ-NT-IN	.....Low Range Unit, Inches WC, Display, No Tube or Probe included
ZPS-LR-EZ-NT-PA	....Low Range Unit, Pascals, Display, No Tube or Probe included
ZPS-LR-EZ-ST-IN	.....Low Range Unit, Inches WC, Display with Static Pressure Probe
ZPS-LR-EZ-ST-PA	....Low Range Unit Pascals, Display with Static Pressure Probe

Note: Pressure Range and Output Range for these units will be selected in the field.

For units with a factory specified range or output, use Selection Guide below

Standard and Low Range EZ Pressure Option Selection Guide

ZPS - **(#1) - (#2) - (#3)**

#1: Pressure Output (required)
20.....4 to 20 mA
05.....0 to 5 V
15.....1 to 5 V
10.....0 to 10 V
12.....2 to 10 V

#2: Pressure Range (required)

LOW RANGES

WC Ranges	Pascal Ranges
LR51..0 to 0.10	LR61.....0 to 30
LR52..0 to 0.25	LR62.....0 to 50
LR53..0 to 0.50	LR63.....0 to 100
LR54..0 to 0.75	LR64.....0 to 175
LR55..0 to 1.00	LR65.....0 to 250
LR56..-0.10 to 0.10	LR66..... -30 to 30
LR57..-0.25 to 0.25	LR67..... -50 to 50
LR58..-0.50 to 0.50	LR68..... -100 to 100
LR59..-0.75 to 0.75	LR69..... -175 to 175
LR60..-1.00 to 1.00	LR70..... -250 to 250

#2: Pressure Range continued...

STANDARD RANGES

WC Ranges	Pascal Ranges
SR71..0 to 1.00	SR81.....0 to 250
SR72..0 to 2.00	SR82.....0 to 300
SR73..0 to 2.50	SR83.....0 to 500
SR74..0 to 3.00	SR84.....0 to 1,000
SR75..0 to 5.00	SR85.....0 to 1,250
SR76..-1.00 to 1.00	SR86..... -250 to 250
SR77..-2.00 to 2.00	SR87..... -300 to 300
SR78..-2.50 to 2.50	SR88..... -500 to 500
SR79..-3.00 to 3.00	SR89.. -1,000 to 1,000
SR80..-5.00 to 5.00	SR90.. -1,250 to 1,250

#3: Static Pressure Tube (required)
EZ-NT .. No Tube included
EZ-ST .. Static Pressure Tube included

Custom Ranges are available for these units. Contact your BAPI representative for ordering. Submittal sheets without List Prices can be downloaded from our website at www.bapihvac.com

Example Number: ZPS - (**05**) - (**SR72**) - (**EZ-ST**)

Actual Number (with parenthesis removed): ZPS-05-SR72-EZ-ST

Description: 0 to 5 V Output, 0 to 2” WC Pressure Range, EZ Unit with Static Tube.

Your Number: ZPS-