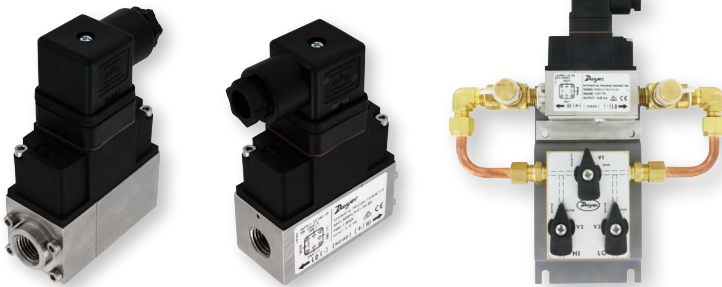


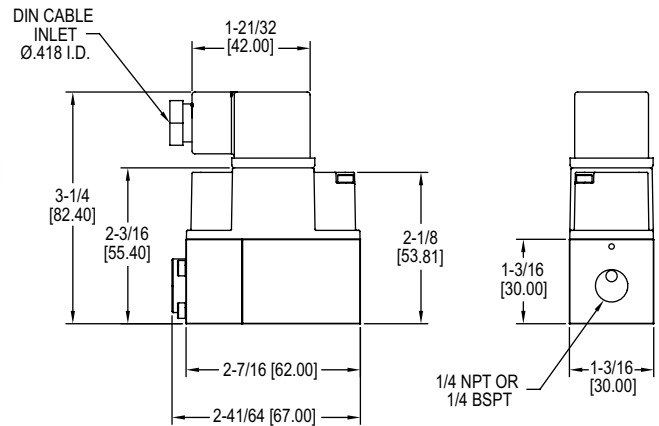
DIFFERENTIAL PRESSURE TRANSMITTERS

High Accuracy, IP65 Enclosure

CALIBRATION SERVICES AVAILABLE



Shown with -3V 3-way valve option



The **Series 629HLP Differential Pressure Transmitters** are suitable for measuring over-pressure, under-pressure, and differential pressure in compatible gases and liquids with 1% accuracy. The 629HLP is suitable for all measuring tasks in commercial, industrial or sanitary applications. Its single sensor design, allows it to measure small increment pressure changes, and converts them to a linear analog output signal from 4-20 mA or 0-10 VDC.

BENEFITS/FEATURES

- Rugged, versatile, high accuracy device
- For liquid or gas systems requiring precise measurements
- Provide excellent response and reliability
- Suitable for static and dynamic measurements
- Converts pressure changes into 4-20 mA or 0-10 VDC output
- Compact, lightweight, capable to be installed in any arrangement making installation very simple

APPLICATIONS

- Heat exchangers
- Fan coils/air handlers
- Core testing applications
- Hydraulic systems
- High line pressures/low DP
- Pumps
- Commercial/industrial processes
- Sanitary process

| MODEL CHART | | | | | | |
|---------------------|--------|-----|----------|----------|------------------|--|
| Example | 629HLP | -01 | -P2 | -S1 | -FC | 629HLP-01-P2-S1-FC |
| Series | 629HLP | | | | | Differential pressure transmitter |
| Range | | 01 | | | | 0 to 1 bar |
| | | 02 | | | | 0 to 2.5 bar |
| | | 04 | | | | 0 to 4 bar |
| | | 06 | | | | 0 to 6 bar |
| | | 15 | | | | 0 to 15 psi |
| | | 30 | | | | 0 to 30 psi |
| | | 60 | | | | 0 to 60 psi |
| | | 90 | | | | 0 to 90 psi |
| Process Connections | | | P2 P4 | | | 1/4" female NPT 1/4" female BPST |
| Output Signal | | | | S1 S5 | | 4-20 mA 0-10 VDC |
| Options | | | | | FC NIST 3V | Factory calibration NIST certificate 3-way valve |

Note: Psi ranges available upon request. Contact factory for details.

SPECIFICATIONS

Service: Compatible gases or liquids.
Wetted Material: 304 SS, EPDM, silicone grease, alumina ceramic; Optional 3-way valve: Brass, copper, nylon, HNBR, FKM, NBR.
Housing Material: ABS.
Enclosure Rating: IP65.
Accuracy: ±1% from -5 to 60°C (23 to 140°F).
Stability: ±1% FS/year.
Temperature Limits: Ambient: -10 to 60°C (14 to 122°F); Process: -10 to 80°C (14 to 176°F).
Relative Humidity: 10% to 90% non-condensing.
Installation Position: Not position sensitive.
Pressure Limits: See pressure range limits chart.
Burst Pressure: See pressure range limits chart.
Static Pressure Limits: See pressure range limits chart.
Output Signal: 4-20 mA, 0-10 VDC.
Response Time: 50 ms.
Rated Supply Voltage: 0-10 VDC output: 12-36 VDC or 12-32 VAC (@ max load of 2 kΩ) 4-20 mA output: 8-36 VDC.
Max Loop Resistance: (Supply voltage – 8 V) / 0.02 for 4-20 mA output.
Power Consumption: V_{out} = 13 mA max, I_{out} = 24 mA max.
Electrical Connections: Form A DIN 43650.
Process Connections: Standard: 1/4" female NPT, 1/4" female BSPT. With 3-way valve option: 1/8" female NPT, 1/8" female BSPT.
Weight: 1 lb 4 oz (567 g).
Approvals: CE, RCM.

| PRESSURE RANGE LIMITS | | | |
|-----------------------|--------------------------------|-------------------------------------|-------------------------------|
| Pressure Range | Maximum Static Pressure (bars) | *Maximum Differential Over Pressure | **Burst Differential Pressure |
| 0 to 1 bar | 25 bar | 5 bar | 8 bar |
| 0 to 2.5 bar | 25 bar | 5 bar | 8 bar |
| 0 to 4 bar | 25 bar | 12 bar | 18 bar |
| 0 to 6 bar | 25 bar | 12 bar | 18 bar |
| 0 to 15 psi | 360 psi | 70 psi | 115 psi |
| 0 to 30 psi | 360 psi | 70 psi | 115 psi |
| 0 to 60 psi | 360 psi | 174 psi | 260 psi |
| 0 to 90 psi | 360 psi | 174 psi | 260 psi |

*The differential pressure limit, between high and low ports, that the transmitter can withstand without affecting transmitter performance.
 **Differential pressures between high and low ports that exceed overpressure limits will result in permanent diaphragm deformation, and any pressure higher than the burst pressure limits will rupture the diaphragm.

| ACCESSORIES | |
|--------------|------------------------|
| Model | Description |
| A-228 | 12" SS flex hose |
| A-629HLP-BKT | Mounting bracket kit |
| BBV-1B | 3-valve block manifold |

USA: California Proposition 65
WARNING: This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Differential Pressure Transmitters, Liquid & Gas