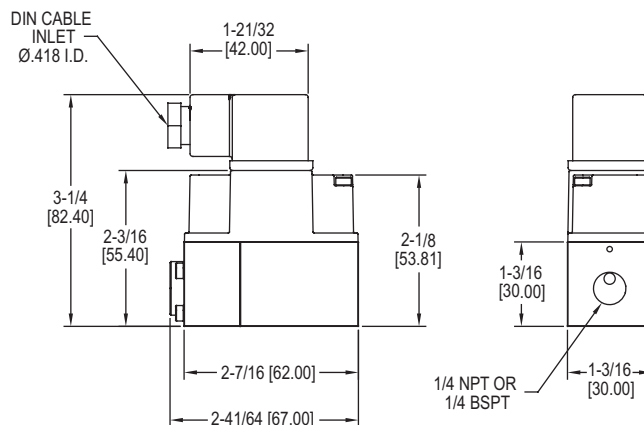
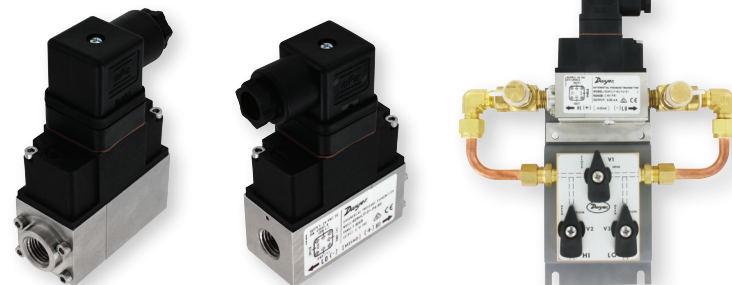


# DIFFERENTIAL PRESSURE TRANSMITTERS

High Accuracy, IP65 Enclosure



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.

## FEATURES/BENEFITS

- 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

## 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:**  $\pm 1\%$  from -5 to 60°C (23 to 140°F).  
**Stability:**  $\pm 1\%$  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 2k  $\Omega$ ) 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.

MODEL CHART					
Example	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		1/4" female NPT
			P4		1/4" female BPST
Output Signal			S1		4-20 mA
			S5		0-10 VDC
Options				FC	Factory calibration
				NIST	NIST certificate
				3V	3-way valve

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

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

Note: \*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-629HLP-BKT	Mounting bracket kit
BBV-1B	3-Valve block manifold
A-228	12" SS flex hose

