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.
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 2k Ω) 4-20 mA output: 8-36 VDC.
Max Loop resistance: (Supply Voltage – 8 V) / 0.02 for 4-20mA output.
Power Consumption: Vout = 13 mA max, Iout = 24 mA max.
Electrical Connections: Form A DIN 43650.
Process Connections: 1/4˝ female NPT, 1/4˝ female BSPT.
Weight: 1 lb 4 oz (567 g).
Approvals: CE, RCM.

EXAMPLES
DIN CABLE
INLET
Ø.418 I.D.
3-1/4 [82.40]
2-3/16 [55.40]
2-7/16 [62.00]
2-41/64 [67.00]
1/4˝ NPT OR 1/4˝ BSPT

MODEL CHART
Example 629HLP -01 -P2 -S1 -FC 629HLP-01-P2-S1-FC Price
Series 629HLP
Range 01 0 to 1 bar 0-10 VDC $265.00
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 -
Connections P4 1/4˝ female BSPT -
Output Signal S1 4-20 mA -
Options S5 Factory calibration 30.00*
FC NIST certificate 139.00*

Note: Psi ranges available upon request. Contact factory for details.
*
Items are net priced and are not subject to any discount.

PRESSURE RANGE LIMITS
Pressure Range Maximum Static Pressure Maximum Differential Over Pressure **Burst Differential Pressure
0 to 1 bar 25 bar 5 bar 8 bar 8 bar
0 to 2.5 bar 25 bar 5 bar 8 bar 8 bar
0 to 4 bar 25 bar 12 bar 18 bar 18 bar
0 to 6 bar 25 bar 12 bar 18 bar 18 bar
0 to 15 psi 360 psi 70 psi 115 psi 115 psi
0 to 30 psi 360 psi 70 psi 115 psi 115 psi
0 to 60 psi 360 psi 174 psi 260 psi 260 psi
0 to 90 psi 360 psi 174 psi 260 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 Price
A-629HLP-BKT Mounting bracket kit $6.10
BBV-1B 3-Valve block manifold 135.00
A-228 12˝ SS flex hose 37.25

CALIBRATION SERVICES AVAILABLE

DIFFERENTIAL PRESSURE TRANSMITTERS
High Accuracy, IP65 Enclosure

Dwyer Instruments, Inc.