AchieVe™ LPPT Series Pressure Transmitters

Part No. LPPT25-20-0015H

Part No. LPPT25-20-5000H

AchieVe Pressure Transmitters

The AchieVe LPPT series is a very economical pressure sensing solution for applications where overall small size, weight, and very low cost are required. A wide variety of compatible liquid and gas pressure sensing applications are possible due to the robust all stainless steel welded sensing element and wetted materials. The LPPT series transmitters feature full scale pressure ranges from 15 to 5000 psig as well as a compound range from vacuum to 30 psig. The field proven internal polysilicon thin film pressure sensor performs with a 1% Total Error Band over 32 to 185°F (0 to 85°C). The AchieVe LPPT series transmitters include a 1/4" NPT male threaded process connection and industry standard, 2-wire, 4-20mA analog output with M12 quick disconnect that simplifies interface to controls, data collection, and telemetry systems.

Features

- Very economical solution for pressure sensing applications
- Compact size is ideal where limited installation space is available
- Full scale pressure ranges from 15 to 5000 psig. Compound range from vacuum to 30 psig
- 1% Total Error Band over 0 to 85°C
- 1/4" NPT male threaded process connection
- 4-20mA analog output
- M12 quick disconnect
- Robust stainless steel construction
- IP67 protection rating

AchieVe LPPT Series Pressure Transmitters

Model	Range	Sensing Element	Output	Process Connection	Operating Voltage	Electrical Connection	Price	Drawing Link	Weight (lb)
LPPT25-20-V30H	-14.7 to 30 psig	17-4 Stainless Steel	4-20mA analog	1/4" NPT male	9 to 32 VDC	4-pin M12 quick-disconnect (purchase cable separately)	$79.00	PDF	0.16
LPPT25-20-0015H	0 to 15 psig						$79.00	PDF	0.16
LPPT25-20-0030H	0 to 30 psig						$79.00	PDF	0.16
LPPT25-20-0060H	0 to 60 psig						$79.00	PDF	0.16
LPPT25-20-0100H	0 to 100 psig						$79.00	PDF	0.16
LPPT25-20-0200H	0 to 200 psig						$79.00	PDF	0.16
LPPT25-20-0300H	0 to 300 psig						$79.00	PDF	0.16
LPPT25-20-0500H	0 to 500 psig						$79.00	PDF	0.16
LPPT25-20-1000H	0 to 1000 psig						$79.00	PDF	0.16
LPPT25-20-2000H	0 to 2000 psig						$79.00	PDF	0.16
LPPT25-20-3000H	0 to 3000 psig						$79.00	PDF	0.16
LPPT25-20-5000H	0 to 5000 psig						$79.00	PDF	0.16

See our website www.AutomationDirect.com for complete Engineering drawings.

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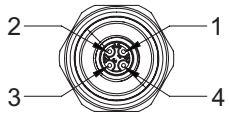
AchieVe LPPT Pressure Transmitter Technical Specifications	
Reference Temperature	72°F ± 2 °F (21°C ± 1°C)
Accuracy Class	± 1.0% Span: Includes non-linearity, hysteresis. Non-repeatability, zero offset and span setting errors at reference temperature
*Total Error Band Accuracy (TEB)**	± 1.0% of Span: From 32ºF to 185ºF (0ºC to 85ºC) ± 2.0% of Span: From 185ºF to 257ºF (85ºC to 125ºC) ± 2.0% of Span: From -40ºF to 32ºF (-40ºC to 0ºC)
Stability	≤ ± 0.25% of span/year
Durability	50 million cycles
Environmental	
Temperature	Storage: -58°F to 257°F (-50°C to +125°C) Operating: -40°F to 257°F (-40°C to +125°C) Ambient:: -40°F to 221°F (-40°C to +105°C)
Humidity	0 to 100% R.H., ± .05% typical
Functional	
Vibration	Random vibration (20g) RMS; 20-2000 Hz per IEC 60068-64
Shock	100gs, 6ms
Drop Test	Withstands 1 meter on concrete
Functional	
Response Time	< 5 msec
Warm-up Time	< 20 msec
Position Effect	< ±0.015% span typical
Electrical	
Insulation Withstand Voltage	500VAC
Insulation Resistance	> 100MΩ @ 100VDC
Circuit Protection	Reverse polarity and miswire protection
Output	4-20 mA, 2 wire
Wetted Components	
Sensor Diaphragm	17-4PH stainless steel
Process Connection	304 stainless steel
Non-Wetted Components	
Housing	304 stainless steel / Nylon
Environmental	
Protection Rating	IP67
Certifications	
Agency Approvals	UR, CE

** Includes the combined effects of non-linearity (Terminal Point Method), hysteresis, non-repeatability, temperature and zero offset and span setting errors.*

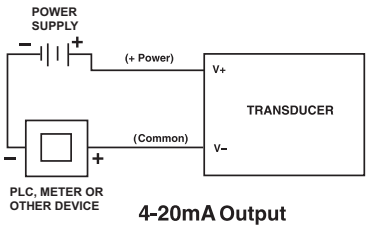
Wiring

Standard 4-20mA



Pin #	Current Wiring
1	V+
2	Ground
3	V-
4	V-

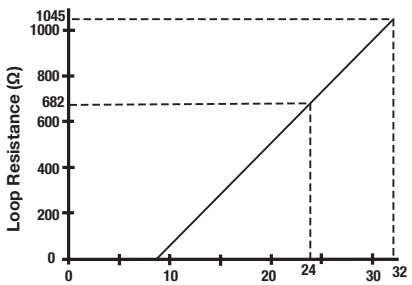
** Use either V- termination*



4-20mA Output

Proof & Burst Pressures		
Overpressure Full Scale (FS) Range	*Proof*	*Burst*
< 100 psi	2 X Range	50 X Range
≥ 100 to 3,000 psi	2 X Range	5 X Range
≥ 3,000 to 5,000 psi	1.5 X Range	4 X Range

Power Supply vs Loop Resistance



V_{MIN} = 9V + [0.022A* x (R_L)]
(*includes a 10% safety factor)
$R_L = R_S + R_W$
R_L = Loop Resistance (Ohms)
R_S = Sense Resistance (Ohms)

For additional information see the AchieVe LPPT Series Pressure Transmitter Quick Start Guide by scanning or clicking on the QR code.