



- ▶ Up to 5000 Bar pressure range
- ▶ High strength, rugged stainless steel design
- ▶ Low power consumption

The EPT31LE is a high quality all stainless steel pressure transducer. The very quick Power-up time, quick response time and low power consumption make the sensor ideal for use with battery powered wireless transmitting systems. Typical applications are agricultural surveillance.

With additional EMI / RFI protection, low static and thermal errors and high resistance to shock and vibration as standard, the EPT31LE assures trouble free operation at temperatures up to 125°C.

The EPT31LE piezo resistive sensing element coupled with the latest ASIC circuitry, assures excellent accuracy, choice of high level outputs and long stability, protected within a rugged, stainless steel housing.

Specifications		
Performance		
Accuracy @ RT	% of the range (gauge and vacuum sensors) < 0.5 BFSL ≤ 0.125 % of the range	(incl. nonlinearity, hysteresis, repeatability, zero-offset and final offset acc. to IEC 61298-2)
Non-linearity	% of the range ≤ 0.15	
Repeatability	% of the range ≤ 0.10	
Stability/year	% of the range ≤ 0.10	
For pressure ranges above 2000 bar:		
Accuracy @ RT	% of the range (gauge and vacuum sensors) < 1.0 BFSL ≤ 0.5 % of the range	(incl. nonlinearity, hysteresis, repeatability, zero-offset and final offset acc. to IEC 61298-2)
Non-linearity	% of the range ≤ 0.30	
Repeatability	% of the range ≤ 0.20	
Stability/year	% of the range ≤ 0.20	
Overrange pressure	up to 2x rated pressure	
Burst pressure	up to 5x rated pressure	
Pressure cycles	> 10 million	
Environment		
Temperature [°C]: Measuring medium Ambience Storage Compensated range	-40...125 -40...105 -40...125 -20...85	
Temperature coefficient within the compensated range:		
Mean TC offset Mean TC range	% of the range ≤ 0,15 / 10K % of the range ≤ 0,15 / 10K	
Shock	1000 G, 11 msec., 1/2 Sine	
Vibration	25 G peak, 20 to 2000 Hz	
Sealing	IP 67	



Ordering information

(Please use the characters in the chart below to create your product code)

Sample Code EPT31LE - A - 01000 - B - 35 - A

Port Configuration

A	G 1/4" E male (standard)
B	1/4 " NPT (standard)
C	1/8" NPT Male
D	7/16" 20 UNF Male
E	9/16" 18 UNF Male
F	M14x1.5 Male
G	1/4" SAE Female
	7/16" UNF Female incl. Schrader opener
H	3/8x24 UNF Male (Dash Size 3)
M10	M10x1

Pressure ranges in bar

See table below*

Pressure Type

B	gauge pressure
V	vacuum pressure

Output signal

35	0.3...2.7V - (with 3V supply Voltage)
36	I ² C, digital - (with 3V supply Voltage)
55	0.5...4.5 V (with 5V supply Voltage)
56	I ² C, digital - (with 5V supply Voltage)

Electrical Connection

A	600mm standard cable
B	DIN EN 175301-803 C

Pressure Range

Bar	0,6	1,0	1,6	2,5	4	6	10	16	25	40	50
Code	00060	00100	00160	00250	00400	00600	01000	01600	02500	04000	05000
Bar	60	100	160	250	400	600	1000	1600	2000	4000	5000
Code	06000	10000	16000	25000	40000	60000	100000	160000	200000	400000	500000

The EPT31LE series is backed by a 1 Year Warranty. The purchaser is responsible for compatibility of the media, functional adequacy and correct

If you require a customized solution for your program contact our sales team.

PITCH TECHNOLOGIES

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