



- Up to 5000 bar pressure range
- High strength, rugged stainless steel design
- CAN - Protocol: CANopen (CiA 404), J1939 (SAE-J1939)
- Temperature range from -40°C to + 125°C
- IP65 up to IP69K rating

The EPT31CN pressure transducer offers intelligent sensing capabilities that can be adjusted and managed within the switching circuit. The robust housing is resistant to shock and vibration and assures trouble free operation even in harsh environments.

The integrated CAN Controller meets the CAN-Protocol CANopen (CiA 404) and J1939 (SAE-J1939), which specifically allows the use in the automotive industry. Other applications are general and heavy duty industries, hydraulics and pneumatics, OEM, automation, environmental engineering, air-conditioning and agricultural.

Specifications

Pressure ranges

Measuring range*	p [bar]	0,6	1,0	1,6	2,5	4,0	6,0	10,0	16,0
Pressure overload	p [bar]	0,5	6	6	6	10	20	20	40
Burst pressure	p [bar]	1,0	9	9	9	15	30	30	60
Measuring range*	p [bar]	20	25	40	60	100	160	200	250
Pressure overload	p [bar]	40	100	100	200	200	400	400	750
Burst pressure	p [bar]	60	150	150	300	300	600	600	1000
Measuring range*	p [bar]	400	600	1000	1600	2000	4000	5000	
Pressure overload	p [bar]	750	840	1200	2400	2400	5000	6000	
Burst pressure	p [bar]	1000	1050	1500	3000	3000	6000	7000	

(Pressure ranges e.g. -1...0 bar, -1..9/24 bar and absolute pressure available.>1000 bar with thread M18x1,5)

* Custom options available on request

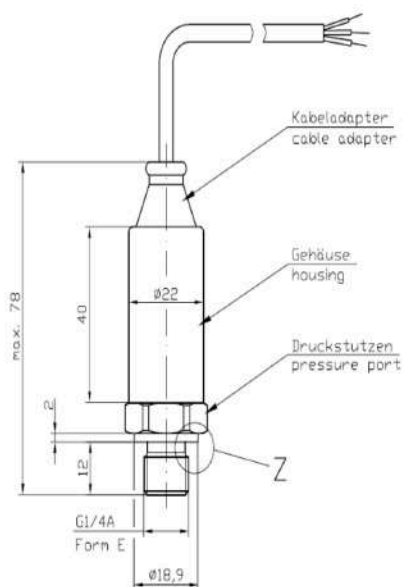
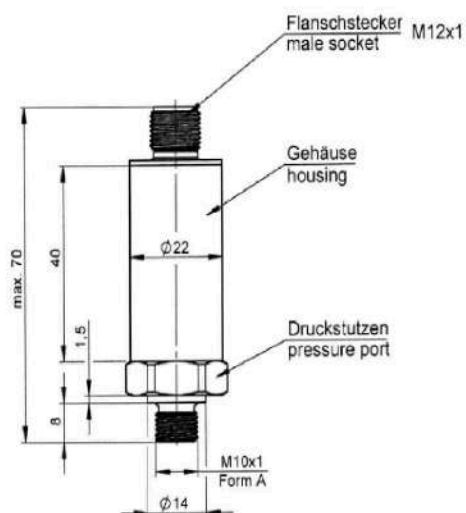


Specifications			
Mechanics			
Wetted parts*	17-4PH stainless Steel		
Housing*	304 stainless steel		
Weight	m[g]	80-120 depending on model	
Shock resistance	g	1000 acc. to DIN EN 60068-2-32 (free fall)	
Vibration resistance	g	20 acc. to DIN EN 60068-2-6 (swinging)	
Shock load	g	50 acc. to DIN EN 60068-2-27 (permanent shock)	
Certifications	CE-Richtlinien 2014/30/EU, 2014/68/EU		
Vibration resistance	The listed IP ratings are only valid with fitted connector and vary depending on specification		
Electronics			
		4-conductors	
Output*			
Supply voltage	U [V _{DC}]	10...32	
CAN Interface		acc. DIN ISO 11898: CAN; SAE J1939	
CAN Protocol		CANopen	
Response time	t [ms]	< 1 (10...90%)	
Max. current consumption	I [mA]	< 30	
Elektrical Strength*	U [V _{DC}]	50	
Accuracies			
Accuracy only valid for up to 2000 bar; above 2000 bar is 1%			
Accuracy @ RT	% of range	≤ 0,50***	Option ≤ 0,25
	BFSL	≤ 0,125	
Non-linearity	% of range	≤ 0,15	
Stability / year	% of range	≤ 0,10	
*** incl. Non-linearity, Hysteresis, Repeatability, deviation from zero and end value (acc. IEC 61298-2)			
Temperature range			
Medium to be measured	T[°C]	-40...125	
Environment	T[°C]	-40...105	
Storage	T[°C]	-40...125	
Compens. range*	T[°C]	-20...85	
Med. TK Offset	% of range	≤ 0,15 / 10K	
Med. TK Range	% of range	≤ 0,15 / 10K	
Total Error	% of range	-40°C 2,00%	
Electric Strength	% of range	105°C 2,00%	

* Custom options available on request



Dimensions



Ordering information

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

Sample Code

EPT31CN - A - 01000 - B - Z - A

Port Configuration

A

G 1/4" E male (standard)

B

1/4" NPT male (standard)

C

1/8" NPT male (standard)

D

7/16" 20 UNF male

E

9/16" 18 UNF male

F

M14x1.5 male

G

1/4" SAE female

H

3/8x24 UNF male

M10

M10x1 male G1/4 front

Pressure Range

See table below*

Pressure Unit

A

absolute

B

relative / gauge

V

vacuum and b-directional

Output Signal

7

CANopen

8

CAN J1939

Electrical Interaction

A

600mm cable

F

M12x1 mm 4 pin metal connector

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