

TECHNICAL DATA

PTF series pressure transducer

FOZMULA
INNOVATION IN SENSORS



The **Model PTF** series of high quality pressure transducers has been designed for use in many types of industrial and motorsport applications.

Engineered to provide maximum stability and durability, the pressure ranges up to 35 Bar use Ceramic Thick Film technology whilst the higher ranges utilise a Poly Silicon sensing element.

SPECIFICATION

Electrical:

Supply voltage: 5Vdc or 10-32Vdc
Current consumption: <10mA
Connections: 4 way Delphi Packard Metripac connector or 600mm cable
Output signal: 0.5 - 4.5V ratiometric, 0 - 5Vdc or 4-20mA. Other voltages and mA outputs are available on request.
Accuracy: ±0.5% FS
Stability: ±0.1%

Environmental Ratings:

Temperature - operating: -40°C to +125°C (-40°F to +260°F)
- compensated: 0 - 85°C (32°F to +186°F)
Sealing: IP67
Weight: ~50g (2 oz)

Pressure ratings:

5, 10, 16, 25, 40, 60, 100 & 160 Bar gauge. Other ranges are available on request.

Construction:

Body: 316 Stainless steel
Connector: 30% glass filled Nylon 6

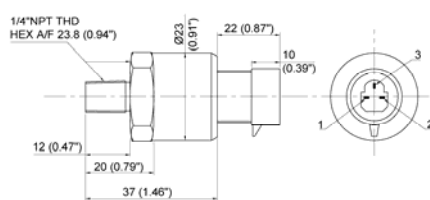
Mechanical data:

Thread sizes: Typically 1/8" NPT, G1/4" Male, 1/4" NPT Male, 7/16" UNF, 9/16 UNF, M10, M12 & M14. Other sizes are available on request
Overrange pressure: 2x rated pressure
Burst pressure: 5x rated pressure
Pressure cycles: >10 million

Ordering data (PTF followed by one item from each of the sections below)

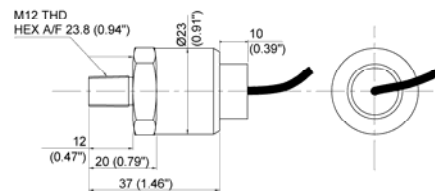
Port size		Pressure rating		Output		Wetted material		Electrical connection	
1	G 1/4 Male	1	5 bar (72 psi)	1	4..20mA	1	316 stainless steel	1	Packard Metripac
2	1/4" NPT Male	2	10 bar (145 psi)	2	0 - 5V	2	304 stainless steel	2	Flying lead
3	1/8" NPT Male	3	16 bar (230 psi)	3	0 - 10V	3	Hasteloy	3	Miniature DIN 43650
4	7/16" - 20 UNF Male	4	25 bar (360 psi)	4	0.5 - 4.5V	4	Inconel	4	Standard DIN 43650
5	9/16" - 18 UNF Male	5	40 bar (580 psi)					5	AMP Superseal
6	M14 x 1.5 Male	6	60 bar (870 psi)					6	DIN72585 Bayonet
7	1/4" SAE Female	7	100 bar (1450 psi)					7	Deutsch DT4-4P
8	3/8" - 24 UNF (Dash size 3)	8	160 bar (2320 psi)						
9	M12 x 1.5 Male								

PTF SERIES PRESSURE TRANSDUCER



EXAMPLE SPECIFICATION:
 PRESSURE RANGE: 0-50 BAR
 PORT CONFIGURATION: 1/4" NPT
 PRESSURE UNIT: BAR GAUGE
 OUTPUT: 0-5V
 ELECTRICAL INTERFACE: PACKARD METRI-PAC 150 SERIES
 EXCITATION: 10-32VDC

PTF SERIES PRESSURE TRANSDUCER



EXAMPLE SPECIFICATION:
 PRESSURE RANGE: 0-10 BAR
 PORT CONFIGURATION: M12
 PRESSURE UNIT: BAR GAUGE
 OUTPUT: 0.5-4.5V
 ELECTRICAL INTERFACE: 600mm FLYING LEADS
 EXCITATION: 5VDC

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