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Titan-Moto

Model: A-Series

Autosport Pressure Sensor





Description:

Introducing Titan-Moto A-Series: a perfect solution into the world of Autosport pressure sensing technology, designed to meet the most rigorous demands of on-vehicle pressure measurement in the motorsport and automotive industry. Engineered with precision, it offers wide options of pressure range from 2 to 400 bar and accurate voltage output, either from a ratiometric 5V supply or 8-16V DC, ensuring compatibility with varied vehicle, test stand and dyno systems.

Customization is paramount: choose from a variety of electrical and pressure connections, each crafted to suit a multitude of applications. Experience unparalleled reliability and accuracy with the Titan-Moto A-Series, driving performance to the pinnacle.

Product Highlights:

- Pressure ranges from 2 bar ... 400 bar
- Accuracy class: <±0.5% / <±0.25%
- Ceramic sensor, high corrosion resistance
- Reliable voltage output
- 5V ratiometric or 8-16V regulated supply
- Cost effective, compact design

Applications include, but not limited to:

- On-vehicle pressure sensing
- Test Stand monitoring
- Dyno pressure measurement
- → Coolant, brake, water, boost, fuel and oil



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Specification:

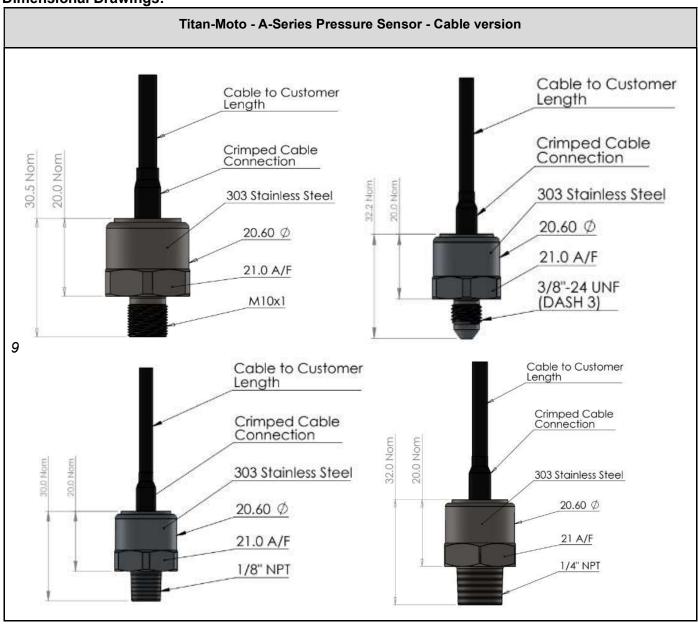
	Titan-Moto - A-Series Pressure Sensor						
Sensor technology	Piezo-resistive						
Output Versions	0.5 to 4.5V (3-wire), ±0.5% setting error						
Supply voltage	Ratiometric: 4.5-5.5V dc, Regulated: 8-16V dc						
Current consumption:	(TBT) Ratiometric: 2.5mA, Regulated: 5mA						
Output Impedance:	TBT						
Pressure reference	Sealed Gauge, Absolute						
Pressure ranges (bar)	2, 5, 10, 20, 50, 100, 200, 400						
Pressure ranges (psi)	30, 75, 150, 300, 750, 1500, 3000, 6000						
Safe over range	1.5 times rated pressure						
Burst rating	3 times rated pressure						
Accuracy (NL&H)	≤ ±0.5 % / ≤ ±0.25 %						
Long Term Stability:	≤ ±0.10 % FS						
Response time	<5mseconds						
Operating temperature	-20 °C to +135 °C						
Compensated temperature	20 °C to +125 °C						
Temperature effects	Typical thermal zero/span coefficients. TZS: ±0.04 %FS/°C, TSS: <-0.02 %/°C						
Media wetted parts	303 Stainless Steel (316L optional), Al ₂ O ₃ , Viton (peroxide-cured), EPDM, HNBR, FFKM						
Permissible media	All fluids compatible with media wetted parts						
Electrical connection	FEP Insulated Screened Cable, 26AWG, M12x1, 4-pin Connector, Packard Metri-Pak 150 Series Connector						
Pressure connection	3/8"-24 UNF, Dash-3 (SAE J514), M10x1 (ISO 6149-2) 1/8" NPT male, 1/4" NPT male, G1/4" DIN3852 male						
Environmental Protection	IP67 (1m for 30mins)						
EMC Protection & Vibration	(TBT) (EN E50082-1 and Mil-Std-810C, Curve L, 20G)						

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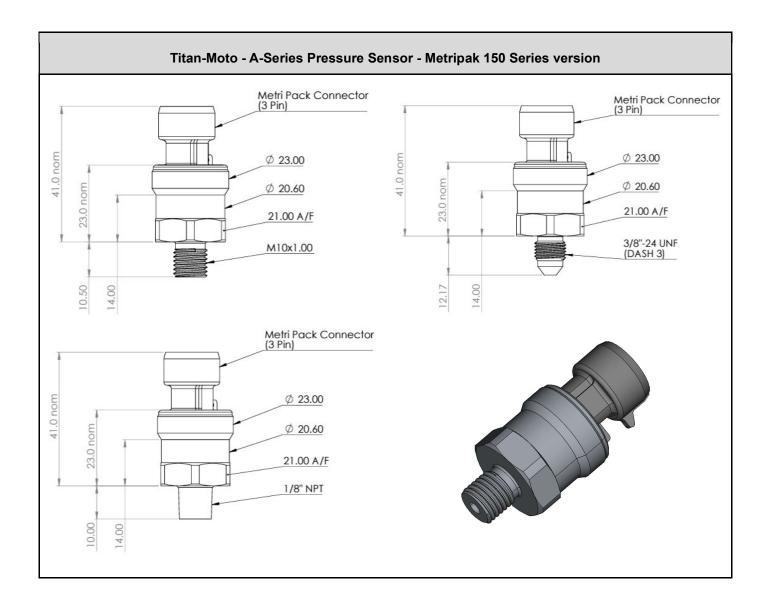
Weight	35g
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TBT: To be tested to confirm definitive values

Dimensional Drawings:



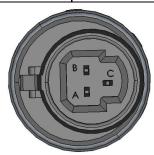
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Wiring:

Function	+Ve Supply	0V Supply	Signal
FEP Cable core colours	Red	Blue	Green
Connector Pins	В	A	С



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Part N	umbe	ering	sy	ste	m									
-Series, Motorsport Pressure Transmitter	AS	- X	Х	- X	Х	- X	Х	- X	X	Х	Х	х	. X	Х
	Allegane													
Output / Supply Type											200			
0.5 to 4.5V (3-wire), 5V dc ratiometric		Α					200							
0.5 to 4.5V (3-wire), 8-16V dc regulated		В												
Others on request		Х												
Accuracy Class														
0.50%			Α				Office of the second							
0.25%			В											
0.10%			С											
Electrical Connection														
FEP Insulated Screened Cable, 26AWG				Α			D.W.C.							
M12x1, 4-pin Connector				В										ĺ
Packard Metri-Pak 150 Series Connector				С										
Others on request				X									3	
Process Connection														
3/8"-24 UNF, Dash-3 (SAE J514)					Α									
M10x1 (ISO 6149-2)					В									
1/8" NPT male					С									
1/4" NPT male					D									
G1/4" DIN3852 male					Ε									
Others on request					Х									
Housing Material														
303 Stainless Steel						A								
Anodised Aluminium						В								
Seal Material							9							
FKM (Viton™)							٧							
FFKM (Chemraz®)							С							
EPDM							Е							
NBR							N							
HNBR							Н							
Pressure Range														
2 Bar								2	0	0	0			
5 Bar								5	0	0	0			
10 Bar								1	0	0	2			
20 Bar								2	0	0	2			
50 Bar								5	0	0	2			l
100 Bar								1	0	0	3			
200 Bar								2	0	0	3			
400 Bar								4 P	0	0 7	3			
72 Psi (example) 5000 Psi (example)								P	5	K	2			
Pressure Datum								-	3	1	0			
Sealed Gauge												s		
Absolute												A		
Special Options														
None													0	0
Pressure port restrictor														8



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•	Cable length is 50cm as standard, if alternative length required this is determined by adding the length
	in cm to the end of the part number, for instance 100cm will be: AS-AA-AB-AV-2000S-00(100)