P161



Ultra-High Pressure Transmitter

Precision Grade--Up to 100,000 psi High Pressure Measurement

Designed for measurement of high pressure

Tel-Tru's P161 is designed for the OEM or end user where ruggedness, high performance, and reliability are required at a competitive price. Key feature of the al welded sensing element design is its small size, which greatly reduces the amount of force exerted by high pressure. The P161 is a one piece precision machined sensing element. This feature makes the P161 ideal for high-cyclical / high pressure applications.

Manufactured for extended life cycle

The P161 is built using advanced manufacturing techniques, with automated weld procedures, extreme environmental burn in and thorough residual stress relieving techniques. The P161 is modular and configurable to meet customers' exact requirements.

Ruggedized NEMA 4X packaging

Every P161 is rated to NEMA 4X standards regardless of pressure range or format. Pressure ranges are available from 0-60,000 psi through 0-100,000 psi.

Certification

Every P161 is shipped with a NIST traceable calibration certificate.

CE

Conforms to EN50081-2 and EN50082-2

Standard Features

 $= \pm 0.5\%$ FSO Static Accuracy NEMA 4X Packaging $= \pm 0.25\%$ FSO/YR Stability

Available Options

 $= \pm 0.25\%$ or 0.1% FSO Static Accuracy Zero/Span Controls with Cal

Note: specifications are subject to change.



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Designed for high cycles



NEMA 4X

P161 Pressure Transmitter

Precision Grade Ultra-High Pressure Transmitter 0-60,000 psi through 0-100,000 psi



Product Specifications

Electrical		Machanical	
Excitation		Pressure Ranges	0-60,000 through 0-100,000 psi
P1614 P1618	8-38 \/dc*	(Customer may specify	y any range/eng. unit FOC)
P161C	2-15 Vdc	Proof Pressure	EX Full Scale* (190k psi max)
Output	2 13 100	Duist Plessule Materials	SX Full Scale (Took psi max)
P161Δ	4-20 m∆	Wattad Darta*	1E E CCT
P161B	9-5 Vdc*	Welleu Paris	10-0 SSI
P161C	1_2 m\///*	NUIFWelleu Pails	
Zero Balance	$- \pm 1\%$ FSO	Flestriad Connector	AUTOCIAVE F-312C
ESO Sotting	$-\pm 1\%$ FSO	Dimensions	neivia 4X cable exit (24 cable)
Resolution	$=\pm1.0130$	Dimensions	per outline below
Posponso Timo		weight	nominal 12 02
	~ 5 mS		
D161C	< 5 mS		
Insulation Posistanco	< 1113 1000 MO @ 50 Vdc		
Povorso Polarity	Protoctod		
Warm up	$\sim 10 \text{ mS}$		
Power Supply Effect	< 101113 = $\pm 002\%$ ESO per V input (p1414 p1418)		
	$= \pm .002 / 0 + 30$ per V input (Piota, Piotb)	Environmontal	
EIVII/KFI Short Circuit Drotoctod		Environmental —	
Short Circuit Protected	OP 10 40 Vac (P161A, P161B)	Componented Tomp	
		Operating Temp Pange 40 to 200 °F	
Performance		Storage Temp Bange 40 to 200 °F	
		Storage remp Range	-40 10 250 °F
Static Accuracy (combined effects of non-l	$= \pm 0.5\%$ FSO* (BFSL, RSS)* inearity, hysteresis & repeatability)		
Repeatability	$=\pm 0.15\%$ FSO	* Options Av	vailable
Temperature Effects (combined effects of Zero	$= \pm 1.5\%$ FSO over comp range* & FSO with reference at 70°F)	,	
Long Term Stability	$=\pm 0.25\%$ FSO per year		
		Outline ———	
Note: specifications are subject to change.			
Autoclave F-312-C			
	Pressure Port		
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