Model Number 176A31		CHARGE OUTPUT PRESSURE SENSOR				
Performance	ENGLISH	SI				
Sensitivity(+/- 20 %)	6 pC/psi	87 pC/bar		Optional versions have identical where no		
Measurement Range	3,000 psi	206.8 bar		Where he		
Maximum Pressure(Total)	5,200 psi	358.5 bar				
Resonant Frequency	≥ 100 kHz	≥ 100 kHz				
Transverse Resonance	>15 kHz	>15 kHz				
Frequency Response(± 5 %)	20 kHz	20 kHz	[1][2]			
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[3]			
Environmental						
Acceleration Sensitivity	≤ 0.0036 psi/g					
Temperature Range(Operatin						
Temperature Range(Connecto		-53.9 to 482.2 ℃				
Temperature Response	See Graph	See Graph	[4]			
Hazardous Area Approval	See Manual	See Manual				
Radiation Exposure Limit(Integ	grated 1E10 N/cm²	1E10 N/cm ²				
Neutron Flux)						
Radiation Exposure Limit(Integ	grated 1E8 rad	1E8 rad				
Gamma Flux)						
Electrical						
Output Polarity(Differential)	Differential	Differential				
Capacitance	70 pF	70 pF	[4]			
Resistance(Pin-Pin)(Room Ten	1 *	≥ 1E12 Ohm				
Resistance(Pin-Case)(Room T		≥ 1E12 Ohm				
Resistance(Pin-Pin)(1400°F/76		,				
Resistance(Pin-Case)(1400°F/	760°C) ≥ 100,000 Ohm	≥ 100,000 Ohm				
Physical						
Sensing Element	UHT-12™	UHT-12™				
Sensing Geometry	Compression	Compression				
Housing Material	Nickel Alloy	Nickel Alloy				
Sealing	Welded Hermetic					
Electrical Connector	7/16-27 2-PIN	7/16-27 2-PIN				

Hardline

3 ft

4.73 oz

OPTIONAL VERSIONS

Revision: B

ECN #: 54257

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

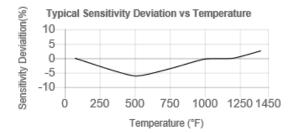
- $\hbox{\small [1]} Low\ frequency\ response\ is\ determined\ by\ external\ signal\ conditioning\ electronics.$
- [2] Upper frequency response is calculated from Resonant Frequency.
- [3]Zero-based, least-squares line method.
- [5]See PCB Declaration of Conformance PS058 for details.

CE UK

Cable Type

Cable Length

Weight(with cable)



Hardline

0.91 m

134 gm

[4]

All specifications are at room temperature unless otherwise specified. In the interest of constant product improvement, we reserve the right to change specifications without notice.

SUPPLIED ACCESSORIES:

Model 72836-01 Silver Plated, Nickel Alloy, Seal. (3)

Entered: ND	Engineer: RPF	Sales: DPC	Approved: RPF	Spec Number:
Date: 10/12/2023	Date: 10/12/2023	Date: 10/12/2023	Date: 10/12/2023	72830



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