Model Number 138A05	ICP ® PRESSURE SENSOR					
Performance	ENGLISH	SI		OPTIONAL VERS	IONS	
Measurement Range(for ±5V output)	5,000 psi	34,475 kPa		Optional versions have identical specifications and accesso where noted below. More than one	ories as listed for the standard model except	
Useful Overrange(for ± 10V output)	10,000 psi	68,950 kPa	[1]	where noted below. More than one	option may be used.	
Sensitivity(± 15 %)	1.0 mV/psi	0.15 mV/kPa		N - Negative Output Polarity		
Maximum Pressure	50,000 psi	344,750 kPa	(2)	W - Water Resistant Cable		
Resolution	0.1 psi	0.7 KPa	[2]	•• •••••		
Rise Time(Reflected)	< 1 5 µ sec	< 15 µ sec				
Low Frequency Response(- 5 %)	1.7 Hz	1.7 Hz				
Non-Linearity Environmental	≤ 2.0 % FS	≤ 2.0 % FS	[3]			
Temperature Range(Operating)	-10 to +100 °F	-23 to +37.8 ℃				
Maximum Shock Electrical	20,000 g pk	196,140 m/s² pk				
Output Polarity(Positive Pressure)	Positive	Positive				
Discharge Time Constant(at room temp)	≥ 0.3 sec	≥ 0.3 sec				
Excitation Voltage	20 to 30 VDC	20 to 30 VDC				
Constant Current Excitation	2 to 20 mA	2 to 20 mA				
Output Bias Voltage	8 to 14 VDC	≤ 100 OIIII 8 to 14 VDC				
Physical	0.011120	01011100				
Sensing Element	Tourmaline	Tourmaline				
Housing Material	Stainless Steel	Stainless Steel				
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack				
				NOTES: [1]For +10 volt output, minimum 24 VDC supply voltage required. Negative 10 volt output may be limited by output bias. [2]Typical. [3]Zero-based, least-squares, straight line method. [4]See PCB Declaration of Conformance PS023 for details.		
				Entered: ND Engineer: RPF Sales: MV	Approved: BAM Spec Number:	
				Date: 10/07/2021 Date: 10/07/2021 Date: 10/07/202	21 Date: 10/07/2021 138-1050-80	
All specifications are at room temperature of In the interest of constant product improver ICP <sup>®</sup> is a registered trademark of PCB Piezo	unless otherwise specified. ment, we reserve the right to ch otronics, Inc.	ange specifications withou	t notice.	WPCB PIEZOTRONICS Fax: 71 E-Mail: 3425 Walden Avenue, Depew, NY 14043	716-684-0001 6-684-0987 info@pdb.com	