

Model Number 1051V1	PERFORMANCE SPECIFICATION								DOC NO PS1051V1	
		NSOR, IEPE						REV A, ECI	N 12897, 08/18/16	
		This family	This family also includes:							
				Sens. (mV/lbf)	Compression Range (lbf)	Max. Compression (lbf)	Tension Range (lbf)	Max. Tension (lbf)	T.C. (sec)	Resolution (lbf, RMS)
	COMPRESSIVE & TENSILE L	DADINGS	1051V2	100	50	1000	50	500	100	0.0007
	• EXCELLENT LINEARITY		1051V3	50	100	2000	100	500	500	0.0014
	• IEPE, VOLTAGE MODE			10	500	10000	500	500	2000	0.007
				5	1,000	15000	500	500	2000	0.014
		1051V6	1	5,000	15000	500	500	2000	0.07	
- In a miles				performance	specifications of	the products in t	his family for	detailed descriptio	n.	
HYSICAL	Supplied Accessories: 1) Accredited calibration certificate (ISO 17025) 2) MOD 6210 STEEL IMPACT CAP 1) Accredited calibration certificate (ISO 17025)									
Veight, Max. Connector	1.0 oz	28 grams	3) MOD 6204 1/4-28 MOUNTING STUD							
Aaterial	10-32 Stainless Steel	10-32 Stainless Steel	Notes:							
Sensing Element Material										
Mode	Compression Compression [2] Percent of full scale or any lesser range, zero based best-fit straight line method. [3] Power the device only with constant current type power units. Do not apply power to this system with									
PERFORMANCE							units. Do not	apply power to this	s system with	out current
ensitivity, ± 5 %	500 mV/lbf	112.4 mV/N	limting. This	will destroy t	he integral IC an	plifier.				
ompression Range	10 lbf	44.5 N				TYPICAL	LINEARITY			
laximum Compression	200 lbf	890 N		Range			Actual Out	put	ר + 1%	
ension Range	10 lbf	44.5 N							}- ````	
faximum Tension [1] Resolution	200 lbf 0.00014 lbf, rms	890 N 0.00062 N			Zero based best	-fit straight line			- 1%	
inearity [2]	±1 % Full Scale	±1 % Full Scale		É.						
Resonant Frequency, Unloaded	75 kHz	75 kHz		U WLLbF)						
Stiffness, Force Sensor	11.4 lbf/µin	2.0 kN/µm		tput(
				ð —			+ 1% of 7	Aro Rasad Rest Fit Line		
Aximum Shock. Unloaded	10.000 g pk	98100 m/s ²					Full Scal	Zero Based Best Fit Line e Output		
faximum Vibration, Unloaded	10,000 g pk 5,000 g pk	49050 m/s ²		0						
emperature Range	-100 to +250 °F	-73 to +121 °C		0		Forc	e (Lb)			
hermal Coefficient	0.03 %/°F	0.05 %/°C					()			
eal	Ероху	Ероху								
LECTRICAL				MODEL 6210	IMPACT CAP (SUPPLI	ED)	► Ø.500			
Dutput Voltage F.S	±5 V	±5 V					-			
output Impedance	<u>±</u> 3 v <100 Ω	<u>±3</u> v <100 Ω				1	2 X 1/4	28 TAPPED HOLE, .175 D	DEEP	
lias Voltage	7.5 to 11.5 VDC	7.5 to 11.5 VDC			.40	.130	-			
Compliance Voltage Range	18 to 30 VDC	18 to 30 VDC		10-32	COAXIAL					
upply Current Range [3]	2 to 20 mA	2 to 20 mA		CON			.6	25		
Discharge Time Constant, Nom	50 Sec	50 Sec								
								750 DDEL 6204 MTG STUD -28 (SUPPLIED)		
			Units on the line of	drawing are in inc	ches, units in brackets	are in millimeters. Refe	r to 127-1051V fo	r more information.		

INSTRUMENTS, INC.

21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.700.7880 www.dytran.com For permission to reprint this content, please contact info@dytran.com