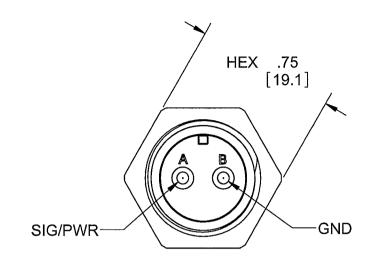
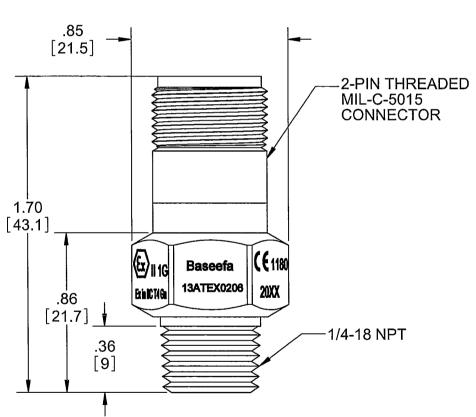
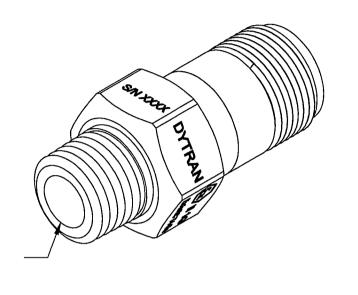
PROPRIETARY AND CONFIDENTIAL

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REVISIONS					
REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
А	5698	INITIAL RELEASE	01/26/09	ANS	DV
В	5351	UPDATED FORMAT	RA, 07/28/10	EP /	DV
С	10439	ADDED SCHEMATIC, NOTES 3 & 4, CONFIGURATION CONTROL STAMP, AND ATEX MARKING	AB 10/02/13	\mathcal{A}	Sy



HOUSING

127-2006V

ISH 1 REV C

MODEL **SENSITIVITY** 2006V1 10mV/PSI 2006V2 50mV/PSI 2006V3 100mV/PSI

FARADAY SHIELD IMPEDANCE INPUT CONVERTER OUTPUT PIN A **GND** - PIN B

SCHEMATIC DIAGRAM

NO CHANGES ALLOWED WITHOUT CONSENT OF CONFIGURATION CONTROL BOARD DYTRAN INSTRUMENTS, INC.

- 4. TOTAL SENSOR CAPACITANCE, Ci (PIEZO ELEMENT PLUS CIRCUIT CAPACITORS): 18 pF MAXIMUM. SENSOR CONTAINS NO INDUCTIVE COMPONENTS.
- 3. IMPEDANCE CONVERTER HAS NO VOLTAGE ENHANCING/GENERATING PARTS.
- 2. MATERIAL: HOUSING/DIAPHRAGM 316L **CONNECTOR - 304L**
- 1. CASE TO GROUND PIN ISOLATION > $100M\Omega$

NOTES: UNLESS OTHERWISE SPECIFIED

UNLESS OTHERWISE SPECIFIED: INTERPRET DIM & TOL PER ASME Y14.5M - 1994. REMOVE BURRS. COUNTERSINK INTERNAL THDS 90° TO MAJOR DIA.
CHAM EXT THDS 45° TO MINOR DIA. THD LENGTHS AND DEPTHS ARE FOR MIN FULL THDS. DIMENSIONS APPLY AFTER FINISHING.
63/

SENSING

∅.31 [∅7.9]

DIAPHRAGM

ALL MACHINED SURFACES. TOTAL RUNOUT WITHIN .005. BREAK SHARP EDGES .005 TO .010. MACHINED FILLET RADII .005 TO .015. WELDING SYMBOLS PER AWS A2.4.

		TOLERANCES	IN INCHES. S ARE:	
	DECIMA .XX ±.01 .XXX ±.0		ANGLES ±1°	
Α.	APPROVALS		DATE	
FOR	ORIG	DV	04/28/08	
iing.	CHK ANS		01/27/09	
	APP	DV	01/27/09	
			THIRO ANGLE PROJECTION	

UNLESS OTHERWISE SPECIFIED:

DO NOT SCALE DRAWING



INSTRUMENTS, INC. Chatsworth, CONLY IF IN RED MASTER

TITLE: OUTLINE/INSTALLATION DRAWING, 2006V

SIZE CAGE CODE DWG NO 127-2006V 2W033 SCALE: 2:1 **SOLIDWORKS** SHEET 1 OF

MODEL NUMBER 2006V1

PERFORMANCE SPECIFICATION

DOC NO.

PS2006V1

DYNAMIC PRESSURE SENSOR, IEPE

REV F, ECN 15538, 01/16/20



HIGH SENSITIVITY

- ACCELERATION COMPENSATION
- ELECTRICALLY ISOLATED HOUSING

SI

	1/
Гуре	MIL
/laterial	

2.3	oz
1/4-18 MNPT	
MIL-C-5015, 2 PIN	
316L	

65	gran
1/4-18 MNPT	
MIL-C-5015, 2 PIN]
316L]

PERFORMANCE

Mounting Provision

PHYSICAL Weight, Max

Connector Diaphragm Material

Sensitivity +/- 10%

Range F.S for +/- 5 volts peak out

Maximum Pressure

Equivalent Electrical Noise (Resolution) Mounted Resonant Frequency

Frequency Response, +/- 10%

Minimum Rise Time of Input Pulse

Discharge Time Constant

Linearity [1]

Lower -3db Frequency

Acceleration Sensitivity, Axial Direction

ENVIRONMENTAL

Maximum Vibration Maximum Shock

Temperature Range

Thermal Coefficient Of Sensitivity

Environmental Seal

Power/Sig Ground Isolation, Min

ELECTRICAL

[2]

Excitation voltage Range
Excitation Current Range
Output Impedance NOM
Output Bias Voltage
Output Signal Polarity

10	mV/psi	1.45E-03	mV/Pa
+/-500	psi	3447379	Pa
8000	psi	5.5 X 10°	Pa
0.007	psi	48.20	Pa
>50000	Hz	>50000	Hz
2 to 5000	Hz	2 to 5000	Hz
2	µsec	2	µsec
0.17 to 2.0	sec	0.17 to 2.0	sec
+/-1	Hz	+/-1	%F.S
1	Hz	1	Hz
0.002	psi/g	0.014	Kpa/g

3000	g rms	
10000	g pk	
-40 to +250	°F	
0.03	%/°F	
Hermetic		
100	МΩ	

18 to 30	VDC
2 to 20	mA
100	Ω
7.5 to 9.5	VDC
Positive	
	2.37

3000	g rms
10000	g pk °C
-40 to +121	°C
0.02	%/°C
Hermetic	1
100	МΩ

2 to 20	m _A
	mA
100	Ω
7.5 to 9.5	VDC
Positive	
	7.5 to 9.5

This family also includes:

Model	Sensitivity (mV/psi)	Range (psi pk)	Resolution (Grms)	Oper. Temp(°F)	TC (Sec)		
2006V2	50	100	0.0014	-40 to +250	0.17 to 2.0		
2006V3	100	50	0.0007	-40 to +250	0.17 to 2.0		

Please, refer to the performance specifications of the products in this family for detailed description.

Notes:

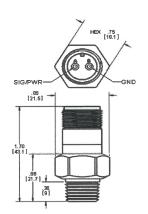
- [1] Percent full scale, zero based fit straight line method.
- [2] From constant current type power unit only. This sensor MUST NOT BE CONNECTED to a
- DC power source without current limiting, 20mA Maximum.
- [3] A calibration certificate traceable to NIST is supplied with each instrument.
- [4] In the interest of constant product improvement, we reserve the right to change the specification without notice It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary overtime. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

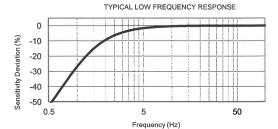
CERTIFICATIONS:

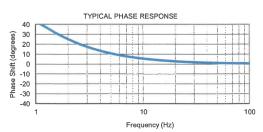
ATEX Ex II 1G Ex ia IIC T4 Ga (marked on each microphone)

Baseefa13ATEX0206(marked on each microphone)

CE certified (marked on each microphone)







Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-2006V for more information.

NO CHANGES ALLOWED

WITHOUT CONSENT OF CONFIGURATION CONTROL BOARD DYTRAN INSTRUMENTS, INC. QA M

