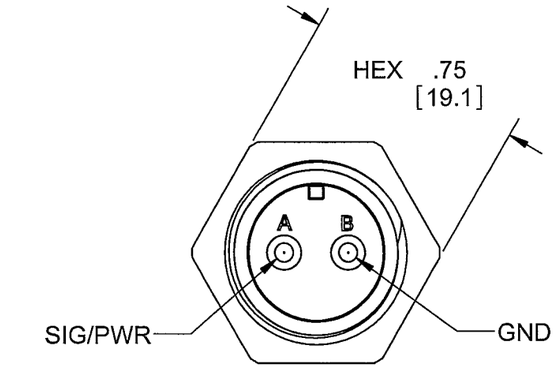
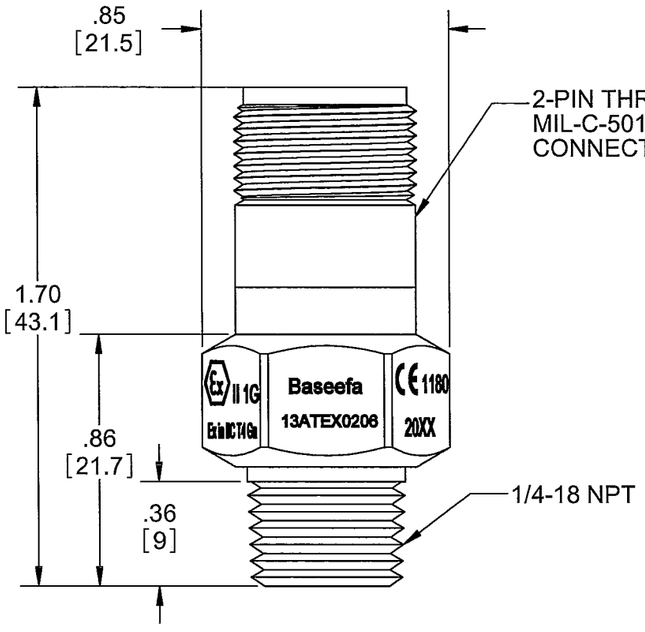
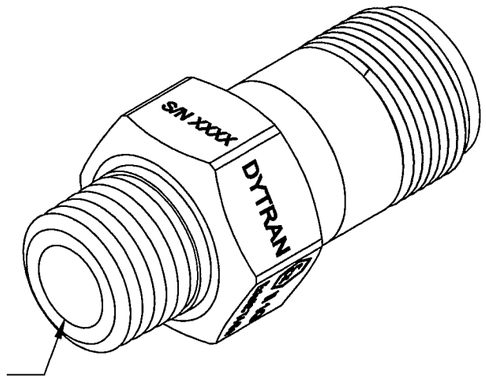
REVISIONS

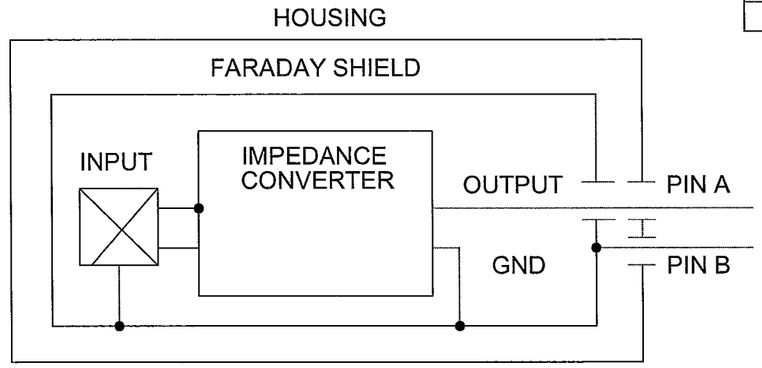
REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	5698	INITIAL RELEASE	01/26/09	ANS	DV
B	5351	UPDATED FORMAT	RA, 07/28/10	EP	DV
C	10439	ADDED SCHEMATIC, NOTES 3 & 4, CONFIGURATION CONTROL STAMP, AND ATEX MARKING	AB 10/02/13		







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



SCHEMATIC DIAGRAM

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

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 >100MΩ

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.

ALL MACHINED SURFACES 63 µin
TOTAL RUNOUT WITHIN .005.
BREAK SHARP EDGES .005 TO .010.
MACHINED FILLET RADII .005 TO .015.
WELDING SYMBOLS PER AWS A2.4.
ABBREVIATIONS PER MIL-STD-12.

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
DECIMALS
.XX ±.01
.XXX ±.005
ANGLES
±1°

APPROVALS		DATE
ORIG	DV	04/28/08
CHK	ANS	01/27/09
APP	DV	01/27/09

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION USA

DYTRAN INSTRUMENTS, INC. Chatsworth, CA

MASTER
ONLY IF IN RED

TITLE: OUTLINE/INSTALLATION DRAWING, 2006V

SIZE	CAGE CODE	DWG NO	REV
B	2W033	127-2006V	C

SCALE: 2:1 SOLIDWORKS SHEET 1 OF 1

MODEL NUMBER	PERFORMANCE SPECIFICATION	DOC NO.
2006V1		PS2006V1
	DYNAMIC PRESSURE SENSOR, IEPE	REV C , ECN 10606, 12/18/13

- **HIGH SENSITIVITY**
- **ACCELERATION COMPENSATION**
- **ELECTRICALLY ISOLATED HOUSING**

		ENGLISH		SI	
PHYSICAL					
Weight, Max		1.9	oz	55	grams
Mounting Provision		1/4-18 MNPT		1/4-18 MNPT	
Connector	Type	MIL-C-5015, 2 PIN		MIL-C-5015, 2 PIN	
Diaphragm Material	Material	316L		316L	
PERFORMANCE					
Sensitivity +/- 10%		10	mV/psi	1.45E-03	mV/Pa
Range F.S for +/- 5 volts peak out		+/-500	psi	3447379	Pa
Maximum Pressure		8000	psi	5.5 X 10⁷	Pa
Equivalent Electrical Noise (Resolution)		0.007	psi	48.20	Pa
Mounted Resonant Frequency		>50000	Hz	>50000	Hz
Frequency Response, +/- 10%		2 to 5000	Hz	2 to 5000	Hz
Minimum Rise Time of Input Pulse		2	µsec	2	µsec
Discharge Time Constant		0.17 to 0.5	sec	0.17 to 0.5	sec
Linearity [1]		+/-1	Hz	+/-1	%F.S
Lower -3db Frequency		1	Hz	1	Hz
Acceleration Sensitivity, Axial Direction		0.002	psi/g	0.014	Kpa/g
ENVIRONMENTAL					
Maximum Vibration		3000	g rms	3000	g rms
Maximum Shock		10000	g pk	10000	g pk
Temperature Range		-40 to +250	°F	-40 to +121	°C
Thermal Coefficient Of Sensitivity		0.03	% / °F	0.02	% / °C
Environmental Seal		Hermetic		Hermetic	
Power/Sig Ground Isolation, Min		100	MΩ	100	MΩ
ELECTRICAL					
Excitation Voltage Range		18 to 30	VDC	18 to 30	VDC
Excitation Current Range [2]		2 to 20	mA	2 to 20	mA
Output Impedance NOM		100	Ω	100	Ω
Output Bias Voltage		7.5 to 9.5	VDC	7.5 to 9.5	VDC
Output Signal Polarity		Positive		Positive	

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 0.5
2006V3	100	50	0.0007	-40 to +250	0.17 to 0.5

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.

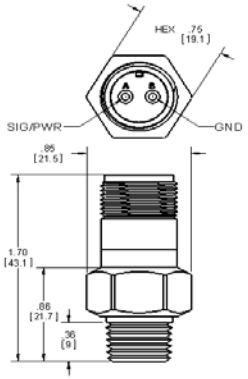
[4] In the interest of constant product improvement, we reserve the right to change the specification without notice

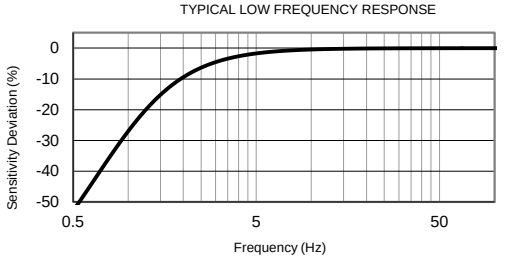
CERTIFICATIONS:

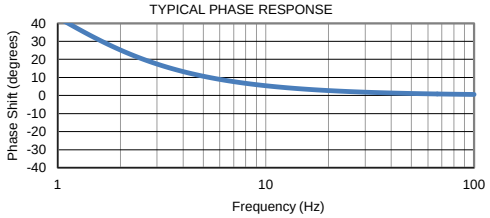
ATEX Ex II 1G Ex ia IIC T4 Ga (marked on each microphone)

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.

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