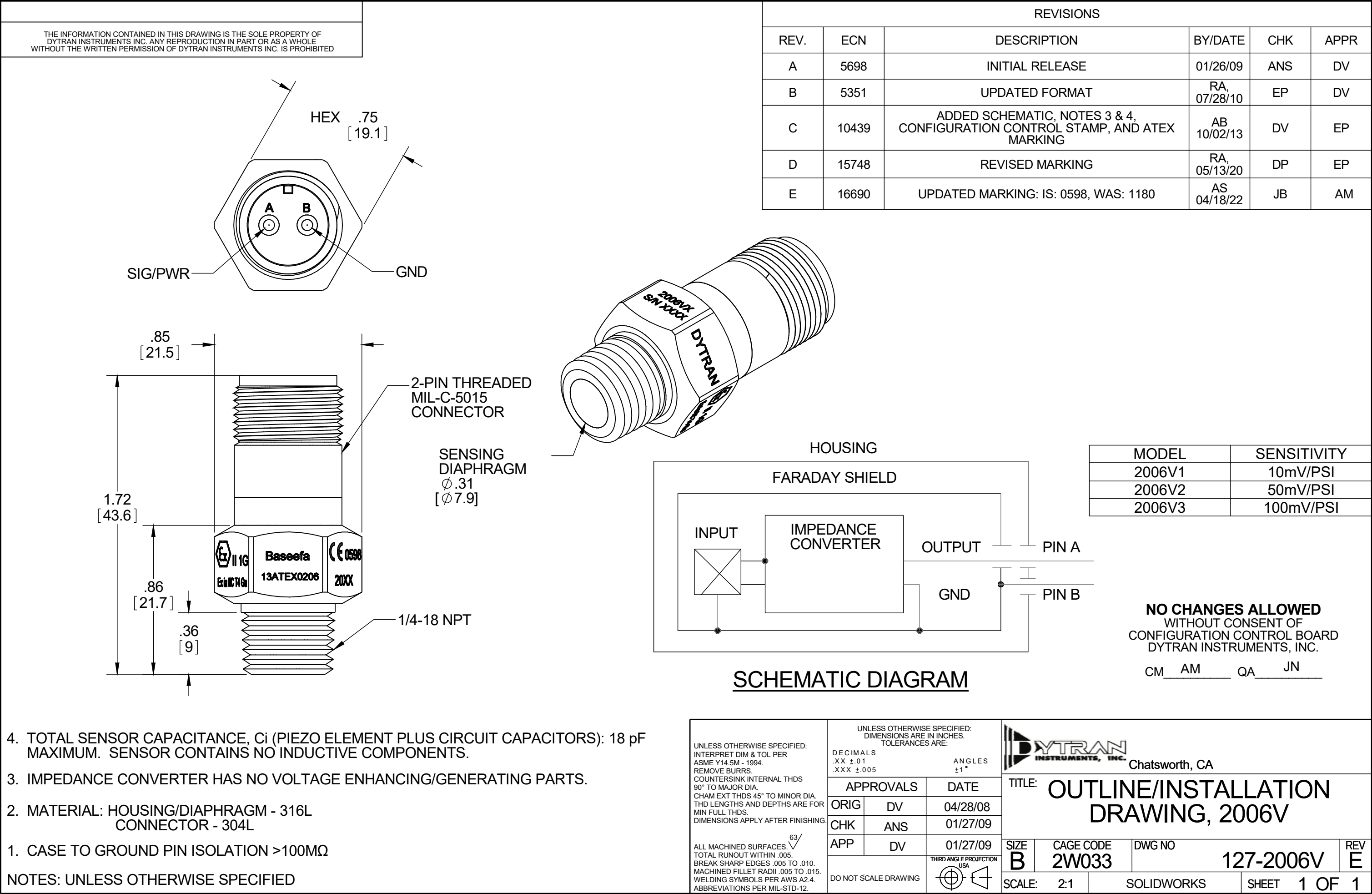




MODEL NUMBER
2006V2

PERFORMANCE SPECIFICATION

DOC NO.
PS2006V2

DYNAMIC PRESSURE SENSOR, IEPE

REV G, ECN 15538, 01/16/20



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

PHYSICAL

Weight, Max
Mounting Provision
Connector
Diaphragm Material

Type
Material

ENGLISH		SI	
2.3	oz	65	grams
1/4-18 MNPT		1/4-18 MNPT	
MIL-C-5012, 2 PIN		MIL-C-5012, 2 PIN	
316L		316L	

PERFORMANCE

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

50	mV/psi	7.2×10^3	mV/Pa
+/-100	psi	689476	Pa
8000	psi	5.5×10^5	Pa
0.0014	psi	9.65	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

ENVIRONMENTAL

Maximum Vibration
Maximum Shock
Temperature Range
Thermal Coefficient Of Sensitivity
Environmental Seal
Power/Sig Ground Isolation, Min

3000	g rms	3000	g rms
10000	g pk	10000	g pk
-40 to +250	°F	-40 to +121	°C
0.03	% / °F	0.02	% / °C
Hermetic		Hermetic	
100	MΩ	100	MΩ

ELECTRICAL

Excitation Voltage Range
Excitation Current Range [2]
Output Impedance NOM
Output Bias Voltage, NOM.
Output Signal Polarity

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

This family also includes:

Model	Sensitivity (mV/psi)	Range (psi pk)	Resolution (Grms)	Oper. Temp(°F)	TC (Sec)
2006V1	10	500	0.007	-40 to +250	0.17 to 2.0
2006V3	100	50	0.0007	-40 to +250	0.17 to 2.0

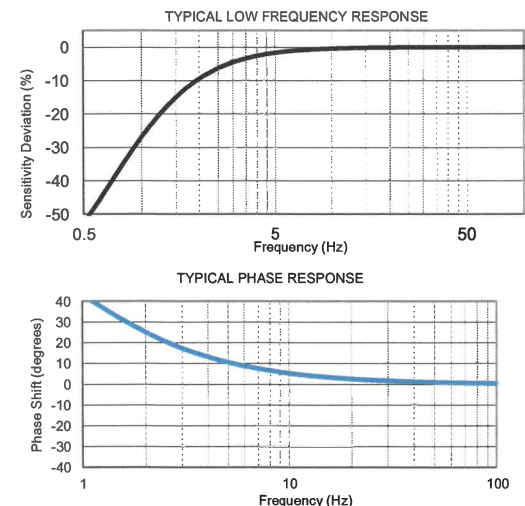
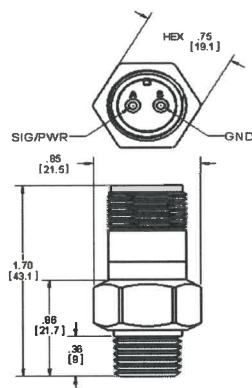
Please, refer to the performance specifications of the products in this family for detailed description.

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.



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