

MODEL NUMBER DOC NO. PERFORMANCE SPECIFICATION 2006M1 PS2006M1 REV C, ECN 12560, 03/25/16 ACOUSTIC PRESSURE SENSOR, IEPE



- HIGH INTENSITY ACOUSTIC SENSOR
- HIGH SENSITIVITY

ENGLISH

- INTERNALLY GROUND ISOLATED
- HERMETICALLY SEALED

PHYSICAL		
Veight, Max		4.7
Mounting Provision		3/4-14 N
Connector	Type	5/8-24, 2-1
lody/Diaphragm	Material	300 Series Stain
Connector	Material	300 Series Stain

		•
4.7	oz	135
3/4-14 NPT		3/4-14 NPT
5/8-24, 2-PIN		5/8-24, 2-PIN
300 Series Stainless Steel		300 Series Stainless Steel
300 Series Stainless Steel		300 Series Stainless Steel

PERFORMANCE

Sensitivity +/- 6% [3]	1000	mV/psi	0.145	mV/Pa
Range F.S for 5 volts peak out	5	psi	34474	Pa
Absolute Maximum Pressure [4]	5075 ps		35	MPa
Equivalent Electrical Noise (Resolution)	1.00E-05	1.00E-05 psi		Pa
Mounted Resonant Frequency	> 21	kHz	> 21	kHz
Frequency Response, +/- 5%	2500	Hz	2500	Hz
Minimum Rise Time of Input Pulse	5	μsec	5	µsec
Discharge Time Constant	0.6 to 1.5	sec	0.6 to 1.5	sec
Linearity [1]	+/-1	%F.S	+/-1	%F.S
Lower -3db Frequency	0.25	Hz	0.25	Hz
Lower 10% Frequency	0.5	Hz	0.5	Hz

ENVIRONMENTAL

Maximum Vibration
Maximum Shock
Temperature Range
Thermal Coefficient Of Sensitivity
Environmental Seal

	_	
100	g rms	
500	g pk	
-60 to +250	°F	-6
0.06	%/°F	
Hermetic		ŀ

100	g rms	981	m/s ² rm
500	g pk 490		m/s² pea
-60 to +250	°F	-51 to +121	°C
0.06	%/°F	0.11	%/°C
Hermetic		Hermetic	

ELECTRICAL

+20 to +30	VDC	+20 to +30
2 to 20	mA	2 to 20
150	Ω	150
11 to 13	VDC	11 to 13
Positive		Positive
	2 to 20 150 11 to 13	2 to 20 mA 150 Ω 11 to 13 VDC

This family also includes.						
	Model	Sensitivity (mV/psi)	Range (psi pk)	Resolution (Grms)	Oper. Temp(°F)	TC (Sec)
	2006M2	300	16.5	3.00E-05	-60 to +250	0.6 to 1.5

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

NOTES:

grams

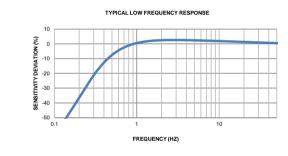
- [1] Percent full scale, zero based fit straight line method.
- [2] From constant current type power unit only. This sensor MUST NOT BE CONNECTED to a
- DC power source without current limiting, 20mA Maximum.
- [3] A calibration certificate traceable to NIST is supplied with each instrument.
- [4] Full pressure must be applied gradually. Do not exceed 100psi/sec.

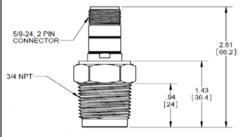
CERTIFICATIONS:

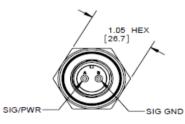
ATEX Ex II 1G Ex ia IIC T4 Ga (marked on each microphone)

Baseefa06ATEX0321 (marked on each microphone)

CE certified (marked on each microphone) ()







Dimensions in brackets are in millimeters. Refer to 127-2006M1 for more information.



VDC mΑ Ω VDC