

MODEL NUMBER 3233AT

PERFORMANCE SPECIFICATION

DOC NO.
PS3233AT

ACCELEROMETER, TRIAXIAL, IEPE

SI

grams

30

8-32 Screw

4-Pin

Titanium Alloy

REV D, ECN 13949, 01/03/18



PHYSICAL Weight, Max

Mounting

Connector Type [1]

Material, Case/ Connector

- TEDS CAPABILITY
- HERMETICALLY SEALED

ENGLISH

1.05

8-32 Screw

4-Pin

Titanium Alloy

- BASE ISOLATED
- 8-32 MOUNTING PROVISION

ΟZ

Model	Sensitivity (mV/q)	Range (Gpeak)	Resolution (Grms)	Oper. Temp (°F)	TC
Wodel	Constituty (mv/g)	rango (Opoak)	recondition (enne)	- F	
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Refer to the performance specifications of the products in this family for detailed description.

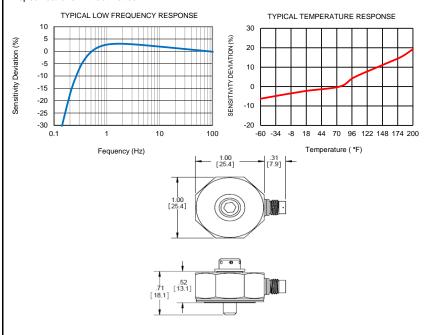
Supplied Accessories:

- 1) Accredited Calibration Certificate (ISO 17025)
- 2) Washer 6583 and Mounting Screw 6582

Notes:

- [1] Connector mates with Dytran Cable Assy. Model 6811AXX. (XX = Length in Feet)
- [2] Measured At 100 Hz, 1 Grms per ISA RP 37.2
- [3] Measured using zero-based best straight-line method, % of F.S. or any lesser range.
- [4] Do not apply power to this device without current limiting, 20mA Max, To do so will destroy the integral IC amplifier
- [5] Case grounded to signal ground. Case isolated from mounting surface
- [6] In the interest of constant product improvement, we reserve the right to change specifications without notice

PERFORMANCE					
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Sensitivity, (±10%) [2]	1000	mV/g	102	mV/ m/s ²	
Range, Full Scale (Each Axis)	5	± g pk	49.1	± m/s² pk	
Frequency Range, All Axes (±5%)	0.5 to 3000	Hz	0.5 to 3000	Hz	
Frequency Range Axis 1 & 2, (±10%)	0.3 to 4000	Hz	0.3 to 4000	Hz	
Frequency Range Axis 3, (±10%)	0.3 to 6000	Hz	0.3 to 6000	Hz	
Element Natural Frequency	>20	kHz	>20	kHz	
Equivalent Electrical Noise		0.00005	g rms	0.0005	m/s² rms
Spectral Noise	1Hz	12	μg rms/√(Hz)	118	µm/s² rms/√(Hz)
	10Hz	4	μg rms/√(Hz)	39	µm/s² rms/√(Hz)
	100Hz	1.2	μg rms/√(Hz)	12	µm/s² rms/√(Hz)
	1000Hz	0.5	μg rms/√(Hz)	5	µm/s² rms/√(Hz)
Linearity [3]		±1	% F.S.	±1	% F.S.
Transverse Sensitivity, Max		5	%	5	%
ENVIRONMENTAL				1 , 2 ,	
Vibration Max	500	± g pk	4905	± m/s² pk	
Shock Max	5000	± g pk	49050	± m/s² pk	
Temperature Range (<3% Deviation)	+50 to +100	°F	+10 to +38	°C	
Operating Temperature	-60 to +200	°F	-51 to +93	°C	
Storage Temperature	-60 to +250	°F	-51 to +121	°C	
TEDS Operating Temperature	-40 to +185	°F	-40 to +85	°C	
Seal		Hermetic		Hermetic	
ELECTRICAL					
Supply Current Range [4]		2 to 20	l mA	2 to 20	l mA
Compliance Voltage Range (Each Axis	+18 to +30	VDC	+18 to +30	VDC	
Output Impedance, Typ.	100	Ω	100	0	
Output Bias Voltage	+11 to +13	VDC	+11 to +13	VDC	
Discharge Time Constant	0.9 to 2.0	Sec	0.9 to 2.0	Sec	
Ground Isolation, Min. [5]	10	MΩ	10	MQ.	
TEDS Feature	IEEE 1451.4	10177	IEEE 1451.4	IVISZ	
1 EDO 1 dataro	IEEE 1431.4		IEEE 1431.4		







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