

## 746

Underwater accelerometer

## SPECIFICATIONS

Sensitivity, ±5%, 25°C	100 mV/g 80 g peak 1%		
Acceleration range <sup>1</sup>			
Amplitude nonlinearity			
Frequency response: ±1 dB ±3 dB		2 - 8,000 Hz 1 - 15,000 Hz	
Resonance frequency, mounted	30 kHz		
Transverse sensitivity, max	5% of axial		
emperature response: -50°C +80°C		10% +4%	
Power requirement: Voltage source Current regulating diode <sup>1</sup>		18 - 30 VDC 2 - 10 mA	
Electrical noise, equiv. g, nominal: Broadband 2.5 Hz to 25 kHz Spectral 10 Hz 100 Hz 1.000 Hz		50 μg 10 μg/√Hz 0.8 μg/√Hz 0.2 μg/√Hz	
Output impedance, max		100 Ω	
Bias output voltage		10, ±2 VDC	
Grounding		isolated	
Hydrostatic pressure		650 psi	
Temperature range		–50° to +80°C	
Vibration limit		500 g peak	
Shock limit		5,000 g peak	
Base strain sensitivity		0.005 g/µstrain	
Dynamic weight		45 grams	
Case material		titanium	
Mounting		10-32 tapped hole	
Integral cabling		J6, 10 ft.	

Notes: 1 To minimize the possibility of signal distortion when driving long cables with high vibration

Face side

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R13 Connector

(Seacon AWM-6-MP)

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Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.

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signals, 24 to 30 VDC powering is recommended. The higher level constant current source should be

6

 $\bigcirc 15$ 

SENSORS & CONTROLS

## Key features

• High pressure rating

• Wide frequency range

Manufactured in ISO 9001 facility



Connections	
Function	Connector
power/signal	center
common	shield

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The information provided herein is to the best of our knowledge true and accurate, it is provided for guidance only. All specifications are subject to change without prior notification.

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Accessories supplied: SF1 mounting stud; calibration data

used when driving long cables.

Cable

shield/common

NC

NC

NC

NC

B+/signal

Pin assignments

Pin #

1

2

3

4

5

6

Althen stands for pioneering measurement and custom sensor solutions. In addition we offer services such as calibration, design & engineering, training and renting of measurement equipment.

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