



g

# 883M

Digital triaxial MEMS accelerometer and temperature sensor

## FEATURES

- Modbus RTU communication protocol
- Digitally outputs vibration spectrum, time waveforms, and vibration characteristic values
- Frequency bands align with ISO 10816-3 and ISO 20816-3 guidelines

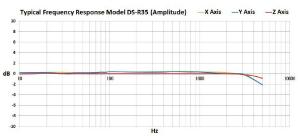


## SPECIFICATIONS

#### **DYNAMIC**

Acceleration range	±16 g, peak
Resolution	0.488 mg
Frequency response, ± 3 dB	2 Hz - 5 kHz
Resonance frequency	6.9 kHz
FREQUENCY BAND OUTPUTS (X,	Y, AND Z AXES)
Acceleration, RMS	2 Hz - 1 kHz; 10 Hz - 5 kHz
Acceleration, peak	2 Hz - 1 kHz; 10 Hz - 5 kHz
Velocity, RMS	10 Hz - 1 kHz; 10 Hz - 5 kHz
Velocity, peak	10 Hz - 1 kHz; 10 Hz - 5 kHz
Displacement, RMS	2 Hz - 1 kHz; 10 Hz - 1 kHz
Displacement, peak	2 Hz - 1 kHz; 10 Hz - 1 kHz
OTHER OUTPUTS	
Temperature	–20° to +70° C
True peak	Fs @ 13.333 kHz
Spectrum	0 Hz - 5 kHz, 6145 lines
Time wave	13,333 samples, 1 second
Other features	crest factor standard deviation
COMMUNICATION	
T	DC405

	RS485
Protocol	Modbus RTU
Recommended baud rate	9,600 or 115,200 bps
Max. baud rate	921,600 bps



Version L03

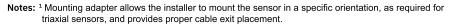
Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.

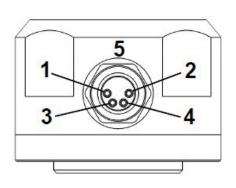


## SPECIFICATIONS

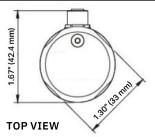
#### **ELECTRICAL**

Power		6 - 24 VDC
LED Indicator		1 (RGB)
ENVIRONMENTAL AN	ID MECHANIC	AL
Dimensions		35mm dia. x 26 mm h
Weight		75 grams
Sealing		IP67
Case material:	upper lower	A6061 aluminum 303 stainless steel
Connector		4-socket M8
Mating connector		4-pin M8
Recommended cabling		4-conductor, PVC jacket, shielded
Mounting		adhesive mount via sensor flat base screw mount adapter¹ (optional) magnet mount adapter¹ (optional)
Operating temperatu	ire	–20° to +70° C
Storage temperature	ļ	–20° to +80° C
Operating humidity		5 - 95% RH



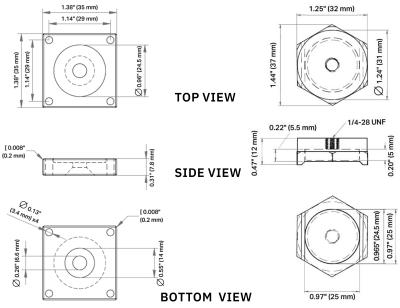


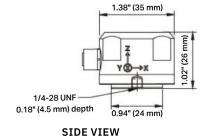
Connections	
Function	Connector pin
power	1
ground	2
signal +	3
signal -	4
shield	5 (housing)

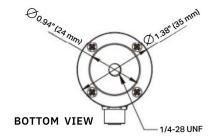


# **SCREW MOUNT ADAPTER**

#### **MAGNET MOUNT ADAPTER**







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.

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.

Page 2/2