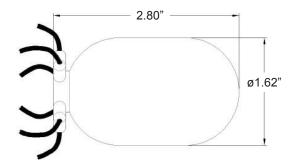
## **Mid-frequency vector sensor**

## VS-209

## SPECIFICATIONS

Output sensitivity, nominal <sup>1</sup> : Accelerometer Hydrophone	1.5 V/g –164 dB re 1.0 V/µPa
Full scale input range: Accelerometer Hydrophone	1.0 g peak 200 Pa peak
Frequency response, ±3 dB: Accelerometer Hydrophone	3.0 Hz - 7.0 kHz 8.0 Hz - 7.0 kHz
Transverse sensitivity, max	5%
Power requirement: Voltage Current, nominal	6.5 - 12.0 VDC 40 mA
Output type, differential	2.1 - 2.6 V bias
Output impedance, max	100 Ω
Pressure range: Operational, max Absolute max	1,500 psi 2,500 psi
Operating temperature	–10° to +60°C
Diameter	1.62 in.
Length	2.80 in.
Buoyancy in water	-65%
Weight, without cables	95 grams
Cable <sup>2</sup>	6 cables, 15 ft. each
External material	polyurethane

Options: Connector; cable length



Notes: <sup>1</sup> Actual values of X, Y, Z, and H are recorded on calibration sheet.

- <sup>2</sup> Cable: twisted, shielded pair, polyurethane jacket.
- <sup>3</sup> Cable shield is not connected in the sensor.
- <sup>4</sup> B (EIA-485): also known as TX+ / RX+ or D+ as alternative for B (high for MARK i.e. idle)
- <sup>5</sup> A (EIA-485): also known as TX- / RX- or D- as alternative for A (low for MARK i.e. idle)
- <sup>6</sup> A and B are compliant with other VS legacy sensors with digital RS-485.
- <sup>7</sup> I.C manufactures of RS-485 parts use an incorrect (but consistent) A/B naming designation.
- <sup>8</sup> Sensor case connects to ground in the sensor.

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

Wilcoxon Sensing Technologies An Amphenol Company 99080NC Rev.B.2 10/19 8435 Progress Drive Frederick, MD 21701 USA Tel: +1 (301) 330-8811 Fax: +1 (301) 330-8873 info@wilcoxon.com

Cable

Power

Digital

X-axis

Y-axis

Z-axis

H-axis

(RS-485)6,7

(Differential Out)

(Differential Out)

(Differential Out)

(Differential Out)

Sensor case8

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PWR (-) via H-axis





## **Key features**

- Three orthogonal axis accelerometers and one omnidirectional hydrophone
- Four channel combination provides an approximately 4.8 dB improvement in signal to noise ratio
- Pitch and roll, heading
- Preamplifier and differential output
- Micro-controller with RS-485 link
- · Manufactured in ISO 9001 facility

Lead color

White

Black

Shield

N/A

Function

PWR (+)

PWR (-)

Cable shield<sup>3</sup>

B (EIA-485)4

A (EIA-485)5

Cable shield<sup>3</sup>

Cable shield<sup>3</sup>

Cable shield<sup>3</sup>

Cable shield<sup>3</sup>

Cable shield<sup>3</sup>

Signal (+)

Signal (-)

Signal (+)

Signal (-)

Signal (+)

Signal (-)

Signal (+)

Signal (-)