

## Introductio

VS204 is the highly accurate and cost-effective machine health monitoring system. It assembles several vibration sensors with built-in intelligent computing functions, which can actively sense the health status of equipment, and transmit the computing results to the field control system via open transmission protocols.

It is a RS485, triaxial (X, Y and Z), highbandwidth. smart vibration sensor. which can be used to obtain the vibration signal of machine.

The built-in time domain data cleaning functions can handle the monitoring and diagnosis of variable frequency rotating machine and non-rotary equipment easily.

	3		
Power supply	Power voltage		12 to 24 VDC
	Power consumption		0.45 W
	Reverse voltage protection		V
Sampling	Sampling rate	Speed level 6 <sup>th</sup>	~ 26,667 S/s (Maximum BW: 5
		Speed level 5 <sup>th</sup>	~ 13,333 S/s (Maximum BW: 5
		Speed level 4 <sup>th</sup>	~ 6,666 S/s (Maximum BW: 3.3
		Speed level 3rd	~ 4,444 S/s (Maximum BW: 2.2
		Speed level 2 <sup>nd</sup>	~ 3,333 S/s (Maximum BW: 1.6
		Speed level 1 <sup>st</sup>	~ 2,666 S/s (Maximum BW: 1.3
	Signal	Acceleration (g)	V <sup>1*</sup>
		Velocity (mm/s)	V <sup>1*</sup>
	Sampling mode	Software trigger	V <sup>1*</sup>
		Hardware trigger	Х
	Time domain data cleaning		V
Communication	Method		RS485
	Protocol		Proprietary command
	Distance		100m
	Upload	Acceleration signal	V <sup>1*</sup>
		Velocity Signal	V <sup>1*</sup>
	Download	FOTA	V
Appearance	Dimensions		38 x 38 x 18.1 mm
	Housing material		Aluminum alloy
	Water-proof method		Seal
	Wire		Flexible, insulated, 1m
	Wire connector		Pigtail V 2*
	LED for running status		V <sup>3*</sup>

Measurement direction

Amplitude

Sensitivity (±5%)

ADC resolution

Sensitivity (±5%)

ADC resolution

Temperture

IP grade

Frequency response

Measurement Range

Vibration measurement

capability

Temperature measurement

capability

Environmental

resistance

1\* Configurable through utility

Device

Management

2\* RED: 12-24 VDC in, BLACK: GND, GREEN: A, YELLOW: B, BLUE: N/A, BROWN: N/A, Thick BLACK: Shielding 3\* GREEN LED Flash

4\* RED and Orange LED Flash

5\* Manage through device management utility

FOTA

LED for communication status

# Application

Providing signal acquisition functions of the components in high-speed rotating machine, motor, gearbox and non-rotary type equipment, such as robot and linear guide.

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#### СНАМРТЕК

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VS204

Triaxial (X, Y and Z)

±16 g

0.488 mg / LSB

5 - 5 kHz

16 bits

-20°C to 85 °C

256 LSB/ °C

16-bit -20°C to 85 °C

IP65

V<sup>4</sup>

V 5\*

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