





iSN-711-MRTU-IP68/ iSN-713-MRTU-IP68

IP68 Single-axis/Three-axis vibration sensor module (RS-485)

₱ Features

- Single-axis/Three-axis vibration measurement
- Frequency range: 10 Hz to 1K Hz
- Amplitude range: ±8g
- Data Format:

-Acceleration(mg): RMS, Maximum, P-P

-Velocity(mm/s): RMS

-Top 10 spectrum values(Amplitude/Frequency)

- Crest Factor
- Supported Modbus RTU Slave protocol
- IP68 enclosure rating









Fault diagnosis

Vibration

Preventive maintenance

Tine

■ Introduction

The iSN-71x-MRTU-IP68 series are designed for industrial vibration measurement applications in harsh environments. with the IP68 protection rating, the device has even more protection against water, oil, dust, and much more. It has a built-in MEMS accelerometer, so it can easily realize equipment vibration monitoring. The module supports one RS-485 communication interface with Modbus RTU slave protocol, the user can transmit Modbus RTU commands to read the Vibration measurement data by RS-485 interface. The iSN-71x-MRTU-IP68 series are suitable for real-time vibration detection in critical locations for factory monitoring applications, such as production line equipment, motors, pumps, etc., where there is a need to monitor any vibration application.





IP68 Protection Rating Against Water, Oil, Dust





tM-7520A

non n

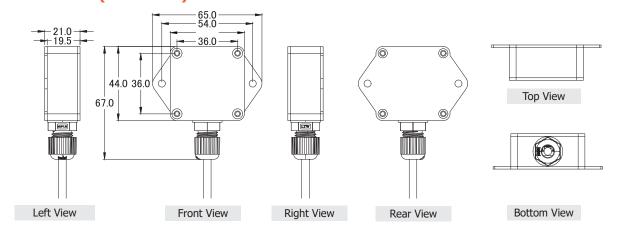
System Specifications

Model	iSN-711-MRTU- IP68	iSN-713-MRTU- IP68	
Vibration Measurement			
Sensor Type	1-axis MEMS	3-axis MEMS	
Amplitude Range	±8g		
Frequency range	10 Hz to 1K Hz		
COM Ports			
Ports	1 x RS-485(D+, D-)		
Baud Rate	9600, 19200, 38400,	57600, 115200 bps	
Data Format	N, 8, 1		
Protocol	Modbus RTU		
Power			
Input Type	+10 ~ +30 VDC		
Consumption	0.3 W		

Model	iSN-711-MRTU- IP68	iSN-713-MRTU- IP68		
Mechanical				
Dimensions (mm)	65 x 44 x 21 (W x L x H)			
Ingress Protection Rating	IP68			
Installation	Wall-mount or magnet adsorption			
Environment				
OperatingTemperature	-25 ∼ +75°C			
Storage Temperature	-30 ∼ +80°C			
Humidity	10 ~ 95% RH, Non-condensing			

ICP DAS CO., LTD Website: https://www.icpdas.com Vol. 2022.11 1/2

■ Dimensions (Units: mm)

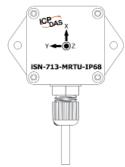


Appearance

iSN-711-MRTU-IP68







■ Pin Assignments

Power and RS-485 Connector

CONN	COLOR	Pin Assignment
1	White	D-
2	Red	VCC
3	Black	GND
4	Green	D+

■ Ordering Information

iSN-711-MRTU-IP68 CR	IP68 Single-axis vibration sensor module (RS-485)(RoHS)
iSN-713-MRTU-IP68 CR	IP68 Three-axis vibration sensor module (RS-485) (RoHS

■ Related Products

iSN-701X CR	Modbus TCP, Vibration signal to Current converter, 1 channel (RoHS)	
iSN-701X-MTCP CR	Modbus TCP, Vibration signal to Modbus slave converter, 1 channel (RoHS)	
iSN-711-MRTU CR	Single axis vibration sensor module (RS-485)(RoHS)	
iSN-713-MRTU CR	Three-axis vibration sensor module (RS-485)(RoHS)	

ICP DAS CO., LTD Website: https://www.icpdas.com Vol.2022.11 2/2