



iWSN-1902-TC-IP65

iWSN temperature measurement module with two K-Type Thermocouple input channels (Asia Only)

₱ Features

- Uses 433 MHz radio frequency for communication.
- 16 RF Channels and 4 Group ID, consist of maximum 64 RF sub-networks
- Two K-Type Thermocouple input channels
- Accuracy of temperature measurement: ±2°C
- Range of temperature measurement: 0°C ~ 150°C
- Built-in disposable lithium battery
- Supports wall-mount or DIN-Rail or magnet adsorption for installation





■ Introduction

iWSN-1902-TC-IP65 is a wireless temperature sensing module in the iWSN series. It provides IP65 grade of dust-proof and water-proof, 433 MHz wireless communication interface, and supports 2-channel K-Type thermocouple temperature measurement. It will actively periodically response the measured temperature to the iWSN wireless data concentrator. This module has a built-in disposable lithium battery for power supply, additional power supply is not required. It is suitable for environments with extremely thick dust, no power supply, and difficult wiring restrictions. That is contribute to real wireless deployment. Furthermore, this module can set 16 wireless channels and 4 Group ID, which is helpful for distinguishing and controlling 433 MHz wireless networks. Users only need to uses the DIP switch for configuration to complete the settings, that let the module to be adjusted and maintained even simpler.

■ System Specifications

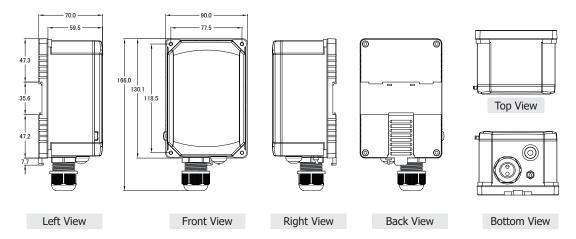
Temperature Measurement		
Sensor Type	K-Type	
Channels	2	
Range	0 °C ~ +150 °C	
Accuracy	±2 °C	
RF		
Channels	0 ~ 15 configured by DIP switch	
Group ID	0 ~ 3 configured by DIP switch	
Radio Frequency	433MHz	
Transmission Distance (LoS)	100 m	
Node ID	1 ~ 31 configured by DIP switch	
Working Duty	1 sec, 10 sec, 30 sec and 60 sec (configured by DIP switch)	

Power		
Battery	CR123A (3.0 V, 1700mAh) x 2 Battery Life: 1 year (Working Duty: 10 sec) 2 years (Working Duty: 30 sec) 4 years (Working Duty: 60 sec)	
Mechanical		
Dimensions (mm)	95 x 165 x 75 (W x L x H)	
Installation	Wall-mount or DIN-Rail or magnet adsorption	
Ingress Protection Rating	IP65	
Environment		
OperatingTemperature	0°C ~ +60°C	
Storage Temperature	-20°C ~ +45°C	
Humidity	20% ~ 65% RH, Non-condensing	

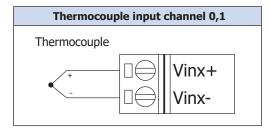


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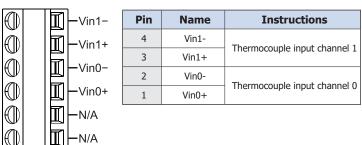
■ Dimensions (Units: mm)



■ Wire Connections



■ Pin Assignments



Ordering Information

iWSN-1902-TC-IP65 CR iWSN temperature measurement module with two K-Type Thermocouple input channels (RoHS) (Asia Only)

■ Related Products

iWSN-2200 Series	iWSN wireless data concentrator (RoHS)

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