



tWF-TH8

Tiny Wi-Fi I/O Module with 8-ch Thermistor Input (Asia Only)

Features

- Wi-Fi communication remote I/O controller.
- Both Access Point(AP) & Station(STA) mode support
- PC utility, Android APP, Web browser support(HTML)
- MODBUS TCP support
- Default 13 NTC Thermistor Types
- 8 User-defined NTC Thermistor Types
- 16 bit resolution
- Wide power supply range: 9 ~ 48 VDC
- Cost-effective



Introduction

The tWF-TH8 module have 8 channels Thermistor input as WLAN connection complies with the IEEE802.11b/g/n standards. With the popularity of 802.11 network infrastructure, the tWF-TH8 make an easy way to incorporate wireless connectivity into monitoring and control systems. They also support Modbus TCP protocol and the network encryption configuration, which makes perfect integration to SCADA software or HMI Modbus APP and offer easy and safe access for users from anytime and anywhere.

System Specifications

Isolation	
Intra-module Isolation	3000 Vdc
EMS Protection	
EFT (IEC 61000-4-4)	±4 kV for Power
EFT (IEC 61000-4-2)	±4 kV Contact for Each Terminal ±8 kV Air for Random Point
LED Indicators	
Status	1 x Power, 1 x Status
Wi-Fi	
Standards	IEEE 802.11 b/g/n
Mode	Access Point (Limited AP) & Station (STA)
Encryption	Open, WEP, WPA2
Data Rate	Data Rate, 2.4 GHz
Power	
Reverse Polarity Protection	Yes
Input Range	+9 VDC ~ +48 VDC
Consumption	0.84 W Max.
Mechanical	
Dimensions (W x L x H)	52 mm x 97 mm x 27 mm
Installation	DIN-Rail Mounting
Environmental	
Operating Temperature	-25 ~ +75°C
Storage Temperature	-30 ~ +75°C
Humidity	10 ~ 95% RH, Non-condensing

Applications

- Building Automation
- Security Automation
- Machine Automation
- Factory Automation
- Food and Beverage Systems
- Semiconductor Fabrication
- Testing Equipment

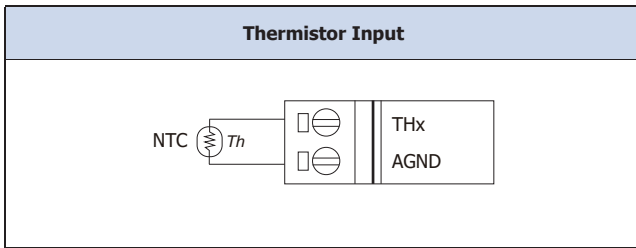
Software Utility

OS	Access Point (AP)	Station (STA)
Windows	Utility	IP Scanner (Free IP Scanner) & Utility
Android	APP	IP Scanner (Free IP Scanner) & APP
Web Browser	Yes	Yes
Modbus TCP	Yes, PC or Android Freeware	Yes, PC or Android Freeware

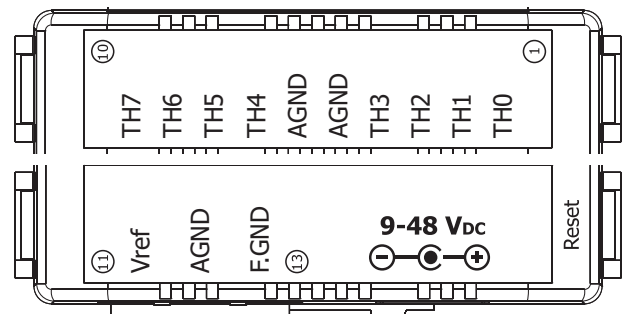
I/O Specifications

Analog Input	
Channels	8
Type	NTC Thermistor
Resolution	16-bit
Accuracy	±1%

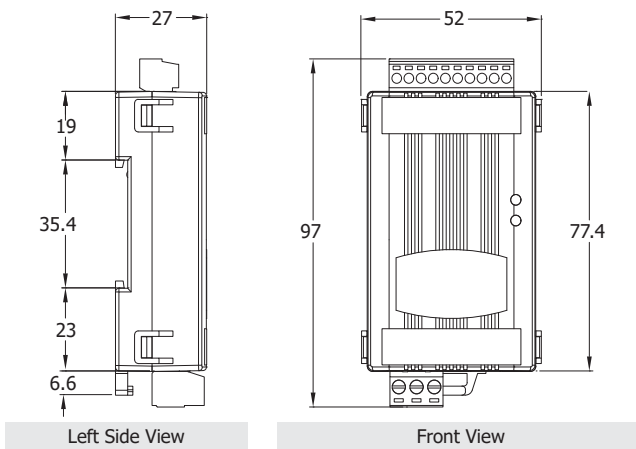
Wire Connections



Pin Assignments








Dimensions (Units: mm)



Ordering Information

tWF-TH8 CR	Tiny Wi-Fi I/O Module with 8-ch Thermistor Input (RoHS) (Asia Only) (RoHS)
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Accessories

 CA-TM-P100-L020 CR	NTC Thermistor, Epoxy Resin Cable, 2 M (-40 °C ~ +80 °C) (RoHS)
 CA-TM-P100-L050 CR	NTC Thermistor, Epoxy Resin Cable, 5 M (-40 °C ~ +80 °C) (RoHS)
 CA-002 CR	DC jack to 2-wire Power Cable, 30 cm (RoHS)
 MDR-20-24 CR	Power Supply, 85 ~ 264 VAC to 24 VDC/1A, 24 W, DIN-rail mounting (RoHS)
 FRA05-S12-SU CR	Power Supply, 110 ~ 240 VAC to 12VDC/0.58A, 7 W, two pins USA plug (RoHS)