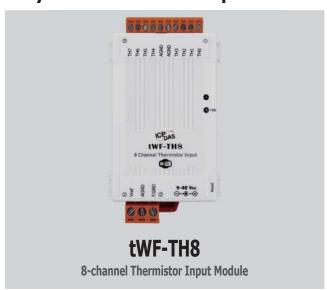


## **Tiny Wi-Fi Thermistor Input Module**



#### Introduction -

The tWF-TH8 module have 8 channel Thermistor input as WLAN connection complies with the IEEE802.11b/g/n standards. With the popularity of 802.11 network infrastructure, the tWF-AD5 module 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** \_

<u> </u>		
Communication		
Interface	Wi-Fi 2.4G	
Standard	IEEE 802.11 b/g/n	
Encryption	WEP, WPA/WPA2-PSK	
Mode	Access Point (AP) & Station (STA)	
IP Configuration	DHCP Server (AP, 1 client), DHCP Client, Static IP (STA)	
Service	TCP, HTTP, Modbus TCP	
LED Indicators		
Power	One 2 colors LED, Blue for System status, Red for Connective status/Locator	
Isolation		
Intra-module Isolation, Field-to-Logic	2500 VDC	
<b>EMS Protection</b>		
ESD (IEC 61000-4-2)	±2 kV Contact for Each Terminal	
	±3 kV Air for Random Point	
EFT (IEC 61000-4-4)	±4 kV for Power	
Power Requirements		
Reverse Polarity Protection	Yes	
Powered from Power Jack	9 ~ 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	
Environment		
Operating Temperature	-20 ~ +75°C	
Storage Temperature	-30 ~ +75°C	
Humidity	10 ~ 95% RH, Non-condensing	

## **■** Features

- Wi-Fi communication remote Analog Input module.
- Both Access Point (AP) & Station (STA) mode support
- PC utility, Android APP, Web browser support (HTML)
- MODBUS TCP support
- Wide power supply range
- Wide operating temperature range
- Default 13 NTC Thermistor Types
- 8 User-defined NTC Thermistor Types
- 16 bit resolution
- Cost-effective





## **■** Applications

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

### Software Utility \_

os	Access Point(AP)	Station(STA)
Windows	Utility	IP Scanner (1) & Utility
Android	APP	IP Scanner (1) & APP
Web Browser	Yes	Yes
Modbus TCP	Yes (2)	Yes (2)

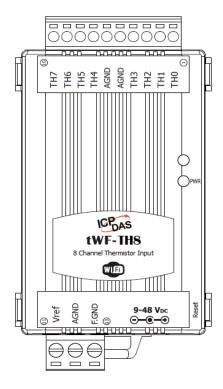
- (1) Free IP Scanner
- (2) PC or Android Freeware

#### **■ I/O Specifications** -

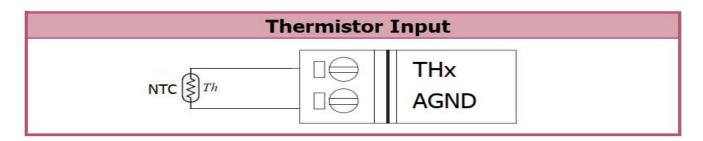
Model	tWF-AD5
Analog Input	
Input Channel	8
Туре	NTC Thermistor
Thermistor Type	Precon ST-A3, Fenwell U -50~150°C, Fenwell U 0~150°C, YSI L100, YSI L300, YSI L1000, YSI B2252, YSI B3000, YSI B5000, SI B6000, YSI B10000, YSI H10000, YSI H30000, User-defined
Resolution	16-bit
Sampling Rate	8Hz(Max) total
Accuracy	+/-1%



## **■ Pin Assignments** .



## **■** Wire Connections \_



#### **■ Product Photo**

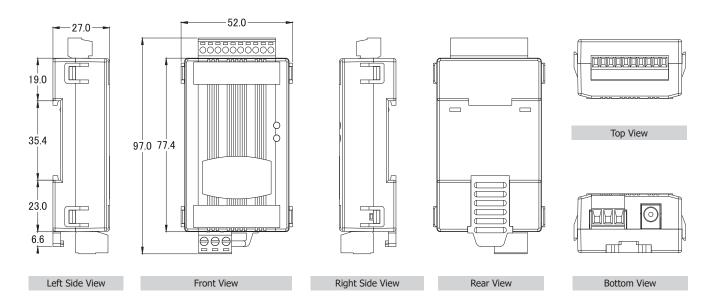








# **■ Dimensions (Units: mm)** \_



## Ordering Information .

tWF-TH8 CR

8-channel Thermistor Input Module (RoHS)