

# WiFio-108

## 16 Channels Thermocouple Input Module

(Burn-out Detection)



### Main Features

**PRELIMINARY**

- ① 16-Ch Thermocouple Input
- ① Burn-out Detection
- ① WiFi / LAN connection
- ① Channel Independent Configuration
- ① Input Voltage Protection  $\pm 35V$



## Introduction

The WiFio-108 is a 16 Channels Thermocouple Input Module with Burn-out Detection of WiFio Series. The WiFio Series is an Ethernet-based wireless IIoT device, which has integrated the IoT data acquisition, processing, and publishing functions altogether. The WiFio Series also provide WiFi and LAN connection for users when establishing networks.

WiFio Series Modules include Analog, Digital, and Relay modules which also with 6~32 channels.

Model Name	WiFio-108
<b>General</b>	
<b>Power Input</b>	10~60VDC
<b>Power Consumption</b>	200mA@24V
<b>Temperature-Operating</b>	-25 ~ 70 °C
<b>Temperature-Storage</b>	-30 ~ 75 °C
<b>Humidity</b>	5 ~ 95 %
<b>Dimensions</b>	120.1 mm*94.4 mm*121.1mm
<b>Weight</b>	360g (Average)
<b>LED Indicators</b>	System,Config,WLAN
<b>WiFio-Master</b>	
<b>LAN Connection</b>	1 x RJ45
<b>Transmission Speed</b>	10/100 Base-TX Ethernet

<b>WiFi Connection</b>	IEEE 802.11/b/g/n Internal built-in ceramic antenna and optional external antenna via I-PEX connector
<b>WiFi Mode</b>	STAP/AP Configurable TX Power Support External Antenna
<b>Modbus Connector</b>	2 serial port both support baud rate up 115200bps 1 DIN-rail port to connect Wolf Series seamlessly
<b>Modbus Interface</b>	1 isolated DB9 type port to support RS232/422/485 by user configurable.
<b>Modbus RTU Modes</b>	Master/Slave Mode manage up to 8 devices
<b>Modbus TCP Modes</b>	Master/Slave Mode
<b>Modbus Function Codes</b>	Full support Modbus/TCP/RTU protocol and depends on equipped devices
<b>Modbus Baud Rate</b>	1.2K~115.2K Baud Rate
<b>http Server</b>	Support http and https
<b>SSH</b>	Secure Session
<b>DHCP</b>	DHCP Client to Obtain IP Address
<b>Supported Browsers</b>	Internet Explorer 8/9/10 and, Mozilla Firefox 24, Safari 5.1.7, Chrome 31, Oper 16.0, with at least 3 simultaneous connections.
<b>Mounting</b>	DIN EN 60715
<b>Safety</b>	FCC/CE/RoHS
<b>WiFi-Slave</b>	
<b>Watchdog Timer</b>	System (1.6 second Fixed) Communication (Programmable)
<b>Interface</b>	RS-485
<b>Communication Protocol</b>	Modbus/RTU
<b>Communication Speed</b>	Serial: From 1200 to 115.2k bps
<b>Communication Distance</b>	Serial: 1.2km
<b>Isolation Protection</b>	2500 or 3000 VDC
<b>I/O Specifications</b>	
<b>Channels</b>	16
<b>Power Consumption</b>	2.8W @ 24V
<b>Direct Sensor Input</b>	J, K, T, E, R, S, B, N
<b>Burn-out Detection</b>	Yes
<b>Channel Independent</b>	Yes

<b>Configuration</b>	
<b>Sampling Rates</b>	2.5 samples/second per channel
<b>Resolution</b>	16-bit
<b>Accuracy</b>	±0.1% FSR
<b>Input Impedance</b>	2MΩ
<b>Span Drift</b>	±25 ppm/°C
<b>Zero Drift</b>	±6 μV/°C
<b>Input Voltage Protection</b>	±35V

## 【WiFio-108】 Terminal Assignment

