Wi-Fi Series Products

Wi-Fi Data Acquisition I/O Module (6 DI / 6 Relay)

RoHS CE FC

WF-2060

Dimensions

Unit: mm
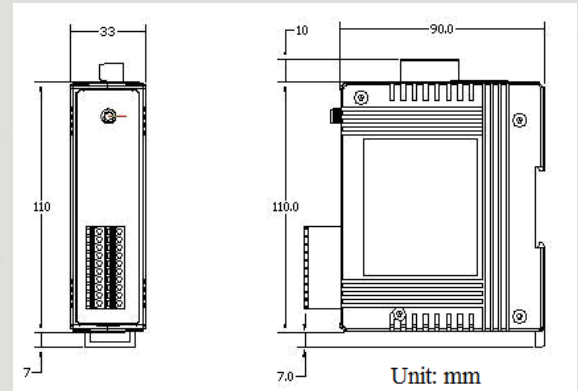
The WF-2060 is a 6-channel isolated digital input with 32-bit counters and 6-channel relay output module and it is one of the members of the WF-2000 wireless product family. In addition, the WF-2060 has WLAN connection complies with the IEEE802.11b/g standards. With the popularity of 802.11 network infrastructure, the WF-2060 makes an easy way to incorporate wireless connectivity into monitoring and control systems. The WF-2060 also supports Modbus/TCP and UDP protocols and the network encryption configuration, which makes perfect integration to SCADA software and offer easy and safe access for users from anytime and anywhere.

Features

- Support Relay type digital outputs
- Support sink / source type digital inputs
- Compatible with IEEE 802.11b/g standards
- Support infrastructure and ad hoc modes for wireless networks
- Support WEP, WPA and WPA2 wireless encryption
- Support Modbus/TCP and UDP protocols
- Support pair connection mode
- Support DO power on value & safe value Mechanism
- Built-in Watchdog
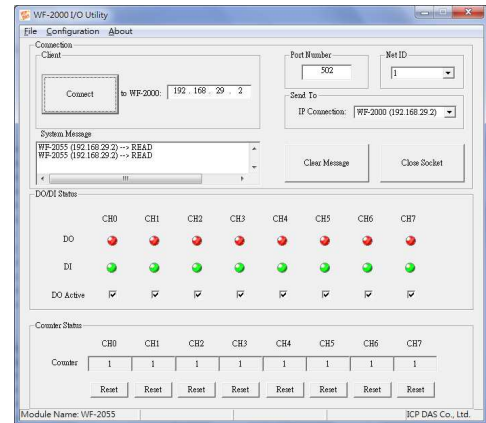
Utility Features

WF-2000 I/O Utility provides a simple way to easily test and instant acquire data for all ICP DAS Wi-Fi I/O series modules without programming

- Easily and quickly configure and test Wi-Fi I/O modules
- Provide I/O monitor screen
- Provide parameter storage interface
- Provide encryption configuration for wireless LAN

Wire Connection

Input	ON	OFF
Relay Contact (Dry)	Relay Close — DIx / GND	Relay Open — DIx / GND
Open Collector (Dry)	ON — DIx / GND	OFF — DIx / GND
Relay Contact (Wet)	Relay Close — DI.COM / DIx	Relay Open — DI.COM / DIx
NPN Output (Wet)	ON — DI.COM / DIx	OFF — DI.COM / DIx

Output	ON	OFF
Relay	Load — RLx NO / RLx COM	Load — RLx NO / RLx COM

Hardware Specifications

Digital Input			
Channels	6		
Input Type	Dry Contact: Source, Wet Contact: Sink / Source		
Dry Contact Level	Off Voltage Level: Open	On Voltage Level: Close to GND	
Wet Contact Level	Off Voltage Level: +4V max.	On Voltage Level: +10 V ~ +50 V	
Counters	Channels	6	
	Max. Counts	32-bit (4294967295)	
	Max. Input Frequency	10K Hz	
Photo-Isolation	3750 VDC		

Digital Output		
Channels	6	
Output Type	Form A (SPST-NO)	
Contact Rating (Resistive Load)	5A 250VAC (47~63Hz)	5A 30VDC
Operate Time / Release Time	10ms max.	5ms max.
Insulation Resistance	1,000MΩs at 500VDC	
Dielectric Strength	Between Open Contact	1000VAC (1 min.)
	Between Coil and Contacts	3000VAC (1 min.)
Endurance	Mechanical	20,000,000 times min.
	Electrical	100,000 times min.

Wi-Fi Interface	
Antenna	5 dBi (Omni-Directional)
Output Power	8 dBm @ 11Mbps
Receive Sensitivity	-83 dBm @ 11Mbps
Standard Supported	IEEE 802.11b/g
Wireless Mode	Infrastructure & Ad-hoc
Encryption	WEP, WPA and WPA2
Transmission Range	50 meters (LOS)

Power	
Input Voltage Range	10V ~ 30V
Power Consumption	1.6W

Mechanism	
Installation	DIN-Rail
Dimensions	110mm x 90mm x 33mm (H x W x D)

Environment	
Operating Temperature	-25℃ ~ +75℃
Storage Temperature	-30℃ ~ +80℃
Humidity	10% ~ 90%

Applications

Connection architecture
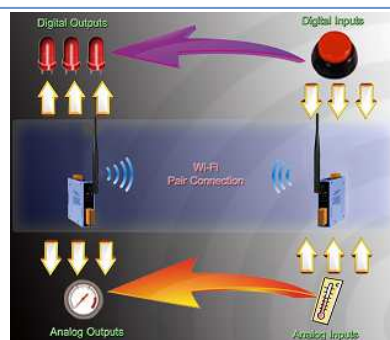
I/O Pair Connection

Ordering Information

WF-2060 CR	Wi-Fi I/O Module with 6-channel Isolated Digital Input and 6-channel Relay Output (RoHS)