



Quick Start Guide for WISE-4000 Series Module

September 2010, Version 1.1

Welcome!

Thank you for purchasing WISE-4000 – one of the most cost-effective automation solutions for remote monitoring and control applications. This Quick Start Guide will provide you with minimum information to get started with WISE-4000. It is intended for use only as a quick reference. For more detailed information and procedures, please refer to the full user manual on the CD included in this package.

What's In the Box?

In addition to this guide, the package includes the following items:

- One WISE-4000 hardware module
- One Quick Start Manual (this manual)
- One companion CD
- One GPRS antenna
- Two mounting screws
- Two L-type wall mount flat pieces

Technical Support

- **WISE-4000 User Manual**(ICP DAS WISE User Manual_v1.1en_4000.pdf)

CD : \WISE-4000\document\User Manual\

ftp://ftp.icpdas.com/pub/cd/wise_cd/wise-4000/document/user manual/

- **WISE Website**

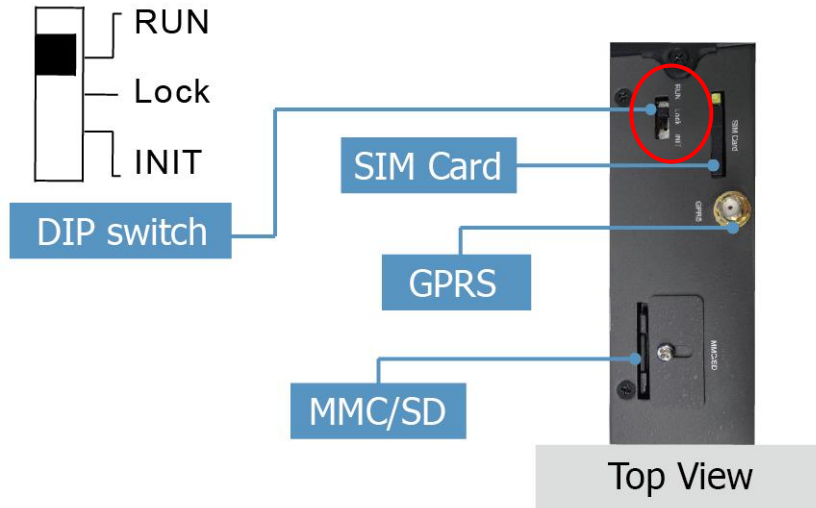
<http://wise.icpdas.com/>

- **ICP DAS Website**

<http://www.icpdas.com/>

1 Configure Boot Mode

Make sure the switch is in the “Run” position.



2 Connect to Network, PC and Power

Connect to Ethernet hub/switch and PC via the RJ-45 Ethernet port.

The diagram shows the connection points for the WISE-4000 module. It includes labels for GPRS, LED Indicators (N/A, GPRS, Sys), Ethernet (10/100M, Link/Act), and two tables for pin assignments: CN2 Pin Assignment and CN1 Pin Assignment.

CN2 Pin Assignment					
Analog Input	AI7	Pin 16	Pin 8	AGND	Analog Ground
	AI6	Pin 15	Pin 7	AGND	
	AI5	Pin 14	Pin 6	AGND	
	AI4	Pin 13	Pin 5	AGND	
Digital Input	AI3	Pin 12	Pin 4	GND	Digital Input
	AI2	Pin 11	Pin 3	DI2	
	AI1	Pin 10	Pin 2	DI1	
	AI0	Pin 9	Pin 1	DI0	

CN1 Pin Assignment					
COM3 RS-232	RxD3	Pin 20	Pin 10	DO.PWR	Digital Output
	TxD3	Pin 19	Pin 9	DO2	
	GND	Pin 18	Pin 8	DO1	
COM1 RS-232	CTS1	Pin 17	Pin 7	DO0	COM2 RS-485
	RTS1	Pin 16	Pin 6	D+	
	RxD1	Pin 15	Pin 5	D-	
	TxD1	Pin 14	Pin 4	GND	
Power Input: +10 V _{oc} ~ +30 V _{oc}	DC.+VS	Pin 13	Pin 3	DC.+VS	Power Input: +10 V _{oc} ~ +30 V _{oc}
	DC.GND	Pin 12	Pin 2	DC.GND	
	N/A	Pin 11	Pin 1	F.G.	Frame Ground

3 Install MiniOS7 Utility

Step 1: Get the MiniOS7 Utility tool



The MiniSO7 Utility can be obtained from companion CD or our FTP site:

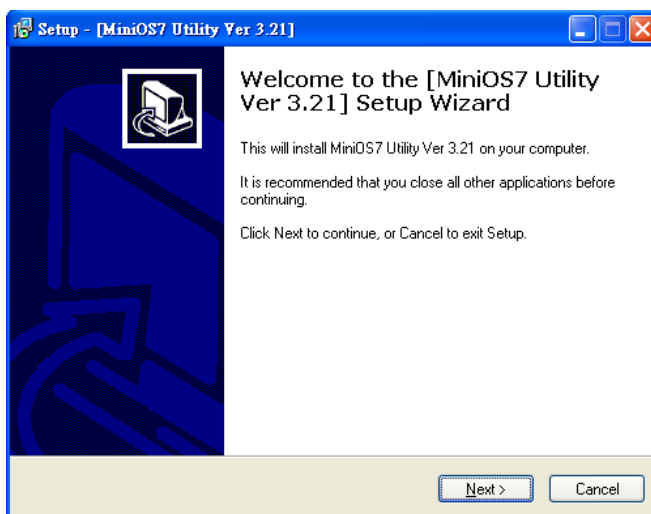
CD: \Tools\MiniOS7_Utility\

ftp://ftp.icpdas.com/pub/cd/wise_cd/tools/minios7_utility/

Step 2: Follow the prompts to complete the installation



After the installation has been completed, a new short-cut for MiniOS7 Utility will appear on the desktop.



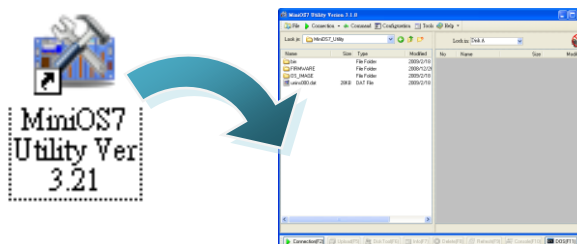
4 Assign a New IP by MiniOS7 Utility

WISE-4000 comes with a default IP address; please assign a new IP address to the WISE module. The factory default IP settings are as follows:

Item	Default
IP Address	192.168.255.1
Subnet Mask	255.255.0.0
Gateway	192.168.0.1

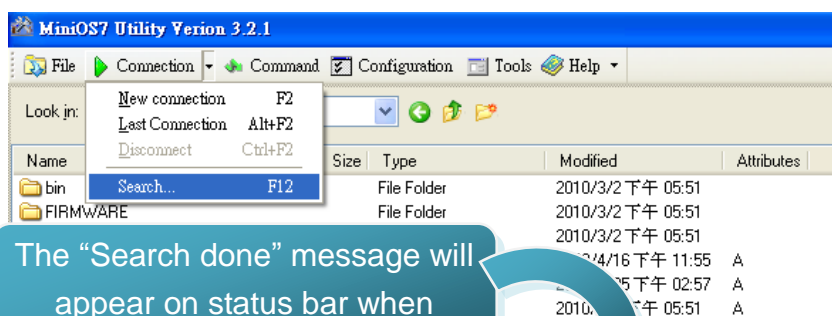
Step 1: Run MiniOS7 Utility

Double-click the MiniOS7 Utility shortcut on your desktop.

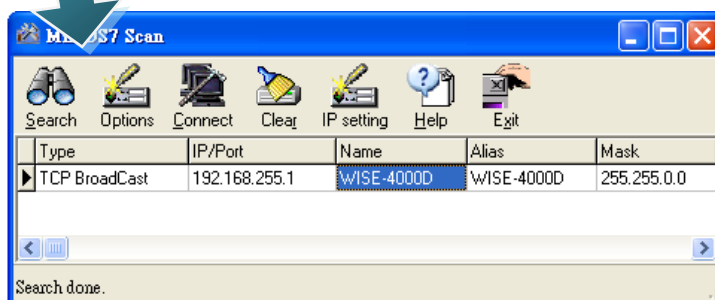


Step 2: Press “F12” or click “Search” from the “Connection” menu

Press “F12” or click “Search” from the Connection menu, a MiniOS7 Scan dialog will appear and will display all the MiniOS7 modules that are currently connected to your network.

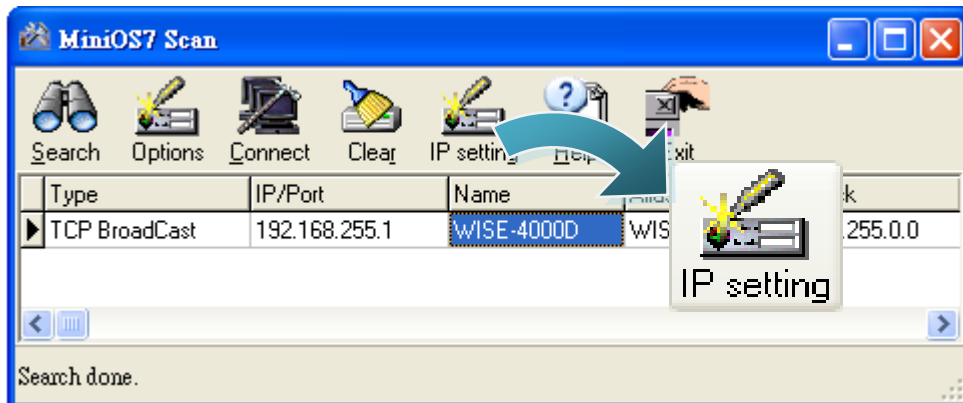


The “Search done” message will appear on status bar when searching process is finished.

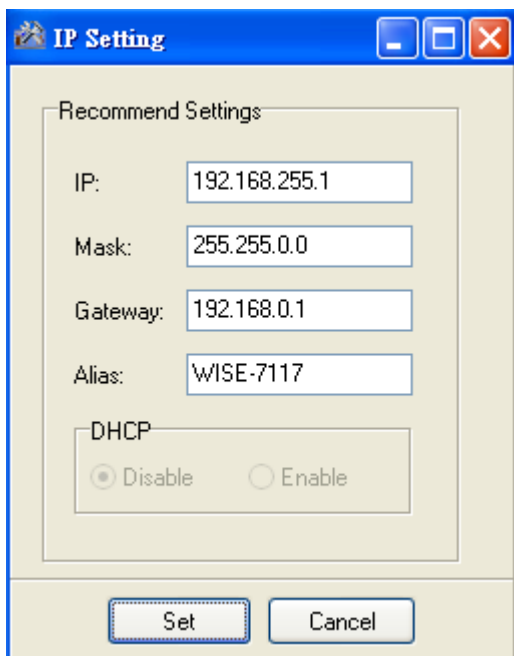


Step 3: Select the module name and then click “IP setting” from the toolbar

Select the module name from the list of the fields, and then click “IP setting” from the toolbar.

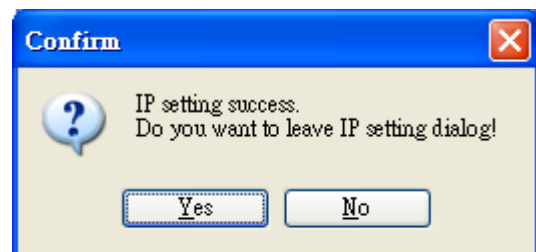


Step 4: Assign a new IP address and then click “Set” button



Step 5: Click “Yes” button

After completing the settings, click the “Yes” button to save and exit the procedure.



5 Go to WISE-4000 Web Site to edit control logic.

Please follow the steps below to implement IF-THEN-ELSE control logic on controllers:

Step 1: Open a browser

Open a browser (recommended internet browsers: Mozilla Firefox or Internet Explorer).

Step 2: Type in the URL address of the WISE-4000

Make sure the IP address assigned is accurate (please refer to section 4: "Assign a New IP by MiniOS7 Utility). Type in the URL address of the WISE-4000 module in the address bar.

Step 3: Get on the WISE-4000 web site

Get on the WISE-4000 web site. Implement the control logic configuration in the order as indicated in the diagram.

The screenshot shows the WISE-4000 web configuration interface. At the top, there are three navigation buttons: '1. Basic Setting', '2. Advanced Setting', and '3. Rules Setting'. Below these are three more buttons: 'Channel Status', 'Upload from Module', and 'Download to Module'. A large blue number '4' is overlaid on the 'Download to Module' button. The main content area includes a 'Welcome to ICP DAS WISE web configuration page' message, a 'Hardware Information' table, and a 'Configuration Procedure' table.

Hardware Information	
WISE Engine Version	1.1
OS Version	2.04.9
Module Name	WISE-4000D
DI channels	3
DO channels	3
AI channels	8
AO channels	0

Configuration Procedure	
Basic Setting	Set up Time, Ethernet, and Module type.
Advanced Setting	Configure channel attributes and additional features.
Rules Setting	Edit IF-THEN-ELSE logic rules.
Download to Module	Download the settings to the hardware device.

Step 4: Edit Basic Settings

Modify the Alias, Time setting, Ethernet setting and the downloading password in the Basic Setting page as needed.

The screenshot shows the ICP DAS web interface. On the left, under '1. Basic Setting', there are buttons for 'Name Setting', 'Time Setting', 'Ethernet Setting', and 'Password Setting'. Two blue arrows point from the 'Time Setting' and 'Ethernet Setting' buttons to their respective configuration pop-ups. The 'Time Setting Page' has fields for Date (Year: 2009, Month: 12, Day: 4) and Time (9:38:2). The 'Ethernet Setting Page' has fields for IP (192.168.100.249), Mask (255.255.255.0), and Gateway (192.168.100.254). Both pages have a 'Save' button.

Step 5: Edit Advanced Settings

Edit channel attribute, internal register, Timer, Schedule, SMS, Email, CGI commands, Recipe, and P2P configuration settings in the Advanced Setting page as needed.

The screenshot shows the ICP DAS web interface. On the left, under '2. Advanced Setting', there is a list of settings: 'DI Attribute Setting', 'DO Attribute Setting', 'AI Attribute Setting', 'Internal Register Setting', 'Timer Setting', 'Schedule Setting', 'SMS Setting', 'E-mail Setting', 'CGI Command Setting', 'Recipe Setting', and 'P2P Setting'. Three blue arrows point from 'DI Attribute Setting', 'Timer Setting', and 'Recipe Setting' to their respective configuration pop-ups. The 'DI Attribute Setting Page' has fields for 'Module & Channel' (WISE-4000, Channel 0), 'Filter' (0 X 10ms), 'Counter' (Condition: Disable, Initial Value: 0). The 'Timer Setting Page' has fields for 'Timer Amount' (0), 'Index', 'Period' (0 Sec), and 'Initial Status' (Stop). The 'Recipe Attribute Setting Page' has fields for 'Recipe Amount' (0), 'Index', and 'Action' (None, Add). All pages have a 'Save' button.

Step 6: Edit Rule Settings

Edit your IF-THEN-ELSE rules in the Rules Setting page.

IF		THEN		ELSE	
Condition1	None	Action1	None	Action1	None
Condition2	None	Action2	None	Action2	None
Condition3	None	Action3	None	Action3	None
Operator	None				

Step 7: Download to Module

After finishing rules setting, download the rules to the WISE module. The WISE module will reboot and execute the rules automatically.

```
Rule 1(Enable)
Description:
< IF >
  Internal_register1 = 0
< THEN >
  Internal_register1 = 0
```

Step 8: For more detail information, please refer to WISE User Manual