▲Haiwell **H01TCP-4Series Gateway User Manual** V2.0   Copyright © 2005Xiamen Haiwell Technology Co.Ltd

1. Product Appearance And Brief Introduction

Haiwell H01TCP-4 is a powerful protocol convertor, which allows the user to configure the different communication protocols and turns into a standard Modbus protocol based on field devices; which also has the Modbus supported PC software (such as Siemens's WinCC software, Wonderware's Intouch, WellinTech's kingview6.55, etc.) communicate with other different devices through hardware protocol gateway to facilitate system integration.

2. Operating environment &The Type and the Number of register

1、The H01TCP configuration software supports Windows XP / 2000/2003 / Win 7 / Win8.

2、Web edition supports IE8 and above, Opera, Apple's Safari, Google Chrome and Firefox browser.

3、The Gateway supports one Modbus TCP server and one Modbus RTU server, It has four kinds of registers support a total of 1024 points, specific points freely assigned by the users, limited points as below

Modbus register type	Modbus Number of register
0x（Coil Status） read & write	1024(1~1024)
1x（Input Status） read only	1024(1~1024)
4x（Holding Register）read & write	1024(1~1024)
3x（ Input Register） read only	1024(1~1024)

3. Power & Port Description

1. PWR（Power Indicator, Yellow）,Flickering - Power good.

2. COM（Serial communication indicator, Green）.

3. Power V- V+ DC(7-36V)。

4. RS48 communication port 4 个，COM1：GND B1 A1，COM2：GND B2 A2，COM3：GND B3 A3，COM4：GND B4 A4。

5. 2pcs 10M/100M self-adaption ethernet port，support AUTO MDI/MDIX。

4.parameter specification

Environ mental	Temperature & Humidity	Operating temperature:-30～70℃ ； Storage temperature:-30～85 Humidity: 10～90％RH No condensation
	Vibration Resistance	10 ～ 25 Hz (X、Y、Z direction 2G/30 minutes)
	Cooling	Natural
	Protection class	The front panel meets IP65 (with flat panel cabinet installation), rear fuselage shell meets IP20. The products last 48 hours in a salt spray test.
Hardware Parameters	CPU	Samsung S3C2416XH-40, ARM926EJ, main frequency :400MHZ
	RAM	64M DDR2
	Memory	256M SLC Flash Compatibility MLC/SLC Nand Flash
	Operation system	WINDOWS CE
	Storage expansion	No
	Ethernet port	2 个 10M/100M self adaption ethernet port，support AUTO MDI/MDIX 2pcs RJ45 port、SD card port
	Debugging way	Support through RS232 main console debugging；support through ethernet Telenet debugging
	Communication port	All communication ports are isolated RS485 communication port
	Mechanical structure	metal shell, surface of painting treatment
	Size	140*116*30mm
	weight	500g

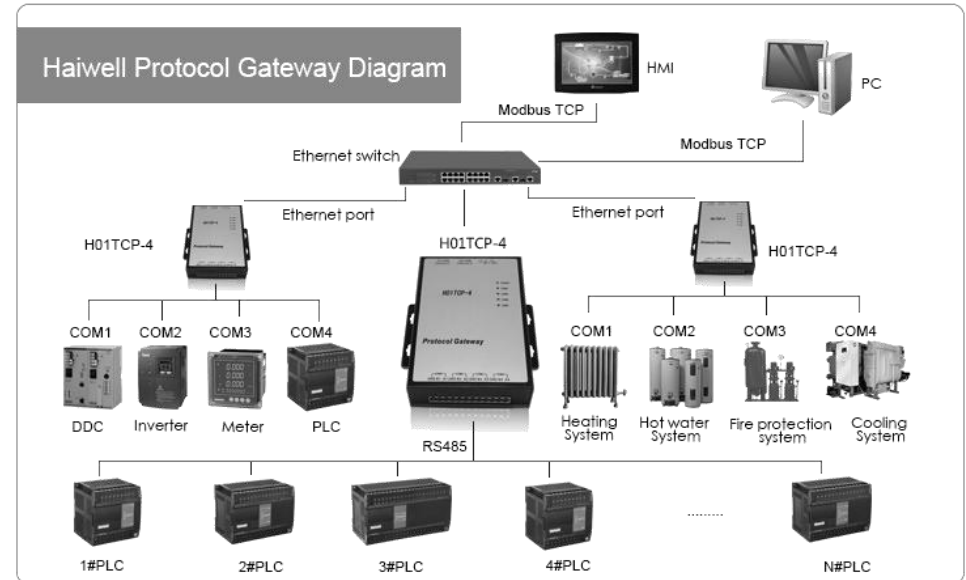| Electrical Specifications	Rated Power	< 5W
	Rated voltage	DC 24V, Can be operated at DC 9V~24V
	Power Protection	With isolated power modules, lightning surge protection
	Allowed power-down time	< 5 ms
	CE& OHS	Meets EN61000-6-2: 2005, EN61000-6-4: 2007 standard；Meets ROHS; Lightning Surge ± 4KV, group pulse ± 4KV;ESD 4K, air discharge 8K

5.Product Feature

1、Support different kinds of protocols change into standard Modbus TCP or Modbus RTU protocol

2、Support multiple upper computer client visit gateway at the same time for monitoring operations

3、Address mapping mode to realize   rapid response to TCP client requests

4、Built-in WEB server, users can view real-time changes in data and communication status through the browser, which convenience on-site commissioning.

5、Gateway supports analog linear conversion, support for take-bit& high-low byte swapping function.

6.Protocol Support

Haiwell Modbus RTU、BACnet IP、BACnet MSTP、DLT645-1997、DLT645-2007 、Modbus RTU 、Modbus ASCII 、Modbus TCP 、Modbus UDP、Modbus RTU_TCP、Modbus RTU_UDP、Modbus ASCII_TCP 、Modbus ASCII_UDP protocol etc.

7.Network diagram

Haiwell Protocol Gateway Diagram

8.Default IP

Ethernet1：172.24.13.88(unchangeable)，for uploading and downloading parameter。 Ethernet2：192.168.1.88(changeable)，for networking and communication,uploading and downloading parameter etc。

Thanks for choosing H01TCP-4, If you have any questions about our products or services, please let us know!Haiwell website: http://www.haiwell.com   http://www.haiwell.cn   V2.0 Copyright © 2005 Xiamen Haiwell Technology Co.,Ltd