

USER MANUAL

CHK-WA User Manual

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1. Overview

1.1 Introduction

The CHK-WA series Star HUB transforms profibus into star topology or stelliform topology. Viz. transform only one Profibus input into (4-32) Profibus output, and the installation will be quite simple. This enables Profibus technology to be quite flexible. The product transforms long-distance distributed nodes, slave devices, and a master device into a dependable Profibus network. Either Profibus, Canbus, RS-232 or Lonworks protocol is available. It supports POLLING Protocol. This product is a simple interface converter. It is transparent and compatible with all upper protocol levels.

The CHK-WA Star HUB can be widely used, such as Industrial Controls, Intelligent Transportation Systems (ITS), Industrial Networking, Supervisory Control and Data (SCADA) and so on.

1.2 Technical Specification

DATA	
Number of Channels	1(Input); 4-32(Output)
Interface	Profibus
RS-PRO Working Rate	0 ~ 1.5Mbps, 0-12Mbps
RS-PRO Distance	0 ~ 1200m
Maximum Interface Access Nodes Number	128
Connector Type	Terminal

GENERAL	
Operating Temperature	-30 ~ 70°C / -30~ +158°F
Operating Humidity	0 ~ 95% non-condensing
Mean Time Between Failure (MTBF)	> 70,000hrs
Power Supply Adaptor	Input: 100~240VAC, 15VA, 50/60Hz; Output: +5VDC, 1.5A
Enclosure Color	Silver
Dimensions (Wall mount, L×W×H) (19" rack mounting, L×W×H)	135mm×115.5mm×36mm (1 to 4) 300mm×444MM×44MM(1 to N(N>12))

1.3 Warranty

- Repair
 - Please contact your local distributors when product is defective. Please apply RA in

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advance and prepay shipping cost when returning the defective product to us. We will pay the cost for sending it back to you.

- Please attach a statement clearly describing the problem.
- We will repair defective product under warranty free of charge to our customer.
- 5 years warranty for product only.
- Any unauthorized modification of hardware and software voids the warranty.
- Warranty does not cover mishandling and/or abuse of the product.

2 Installation

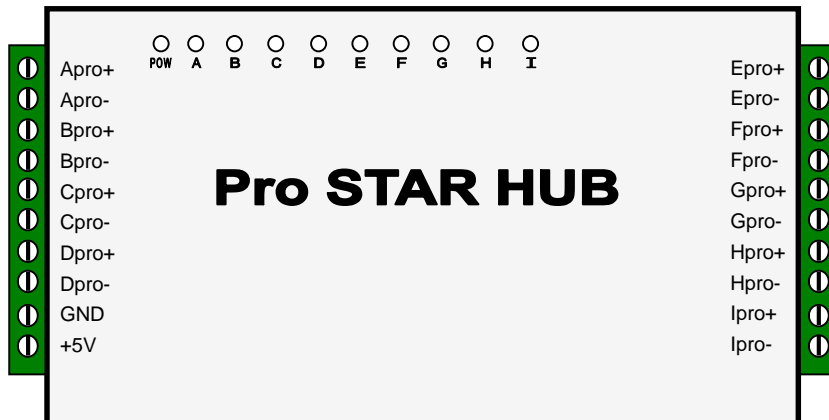
2.1 Package Contents

- One CHK-WA Star HUB (Wall Mount)
- One power supply adaptor
- One User Manual

Please contact dealer or distributor if part is missing or damaged.

2.2 Wall Mount Enclosure

The Top View



LED Indicators:

POW:	Power Supply	On if power input is OK.
A:	Channel A PRO Data	Flashing if there is activity
E:	Channel E PRO Data	Flashing if there is activity
F:	Channel F PRO Data	Flashing if there is activity
G:	Channel G PRO Data	Flashing if there is activity
H:	Channel H PRO Data	Flashing if there is activity

The others are reserved.

Terminal(10 pins) assignment:

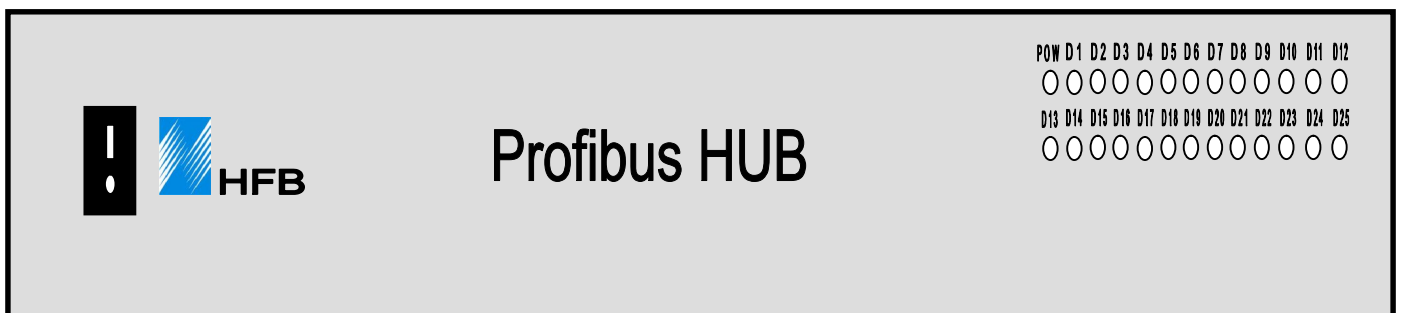
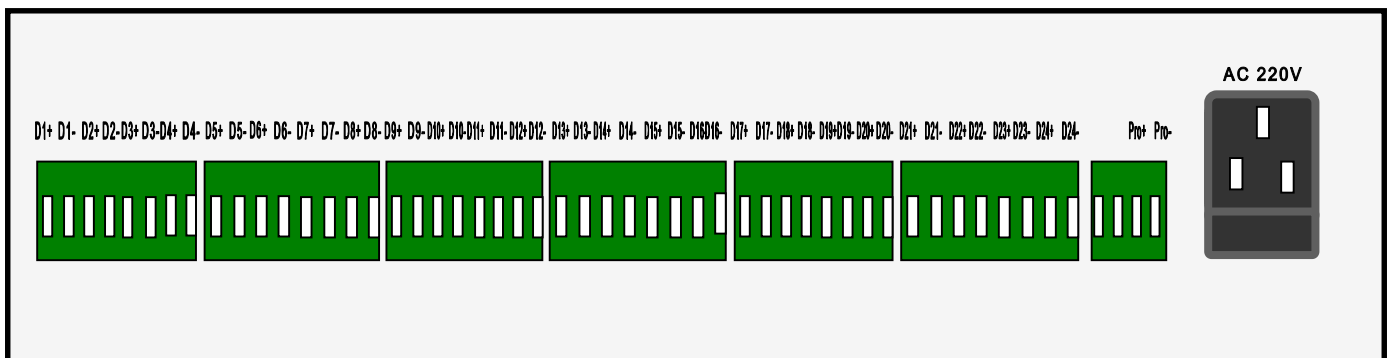
APRO+ : Channel A PRO data signal “+”
 APRO- : Channel A PRO data signal “-”

GND: Power Supply Ground
 +5V: +5VDC Input

EPRO+ : Channel E PRO data signal “+”
 EPRO- : Channel E PRO data signal “-”
 FPRO+ : Channel F PRO data signal “+”
 FPRO- : Channel F PRO data signal “-”
 GPRO+ : Channel G PRO data signal “+”
 GPRO- : Channel G PRO data signal “-”
 HPRO+ : Channel H PRO data signal “+”
 HPRO- : Channel H PRO data signal “-”

The others are reserved.

19" rack mounting



LED Indicators:

POW:	Power Supply	On if power input is OK.
D1-D25:	Channel 1-25 profibus Data	Flashing if there is activity

The others are reserved.

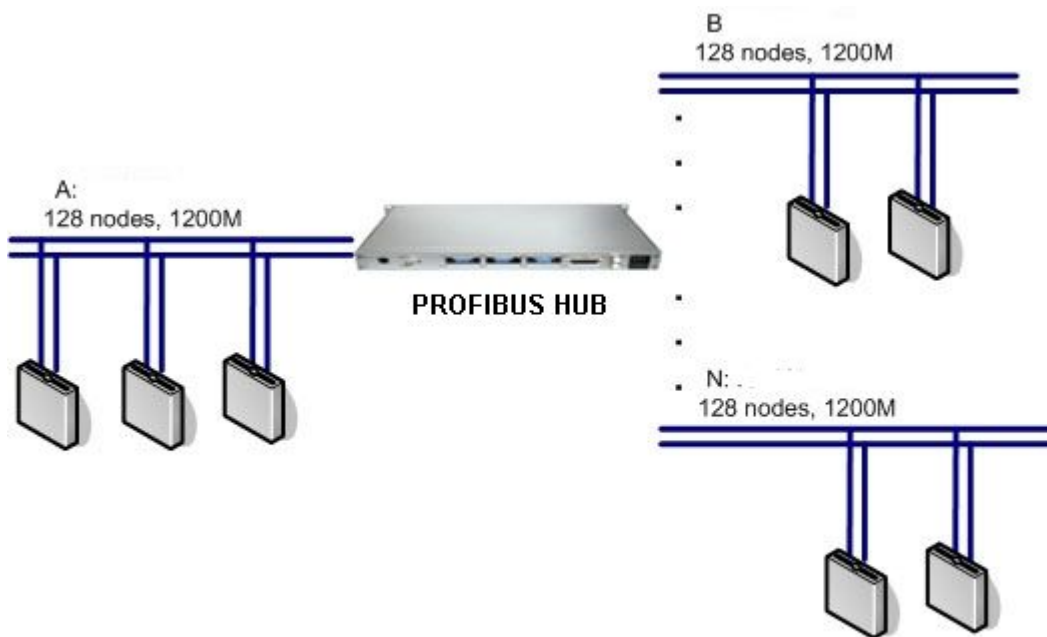
Terminal assignment:

DN(N:1-24)+ :	Channel 1-24 Profibus data signal “+”
DN(N1-24)- :	Channel 1-24 Profibus data signal “-”
PRO+ :	Master station Profibus data signal “+”
PRO- :	Master station Profibus data signal “-”

2.3 Caution

- Switch off all power supply before installation
- The terminal “GND” must be connected to the blue wire; the terminal “+5VDC” must be connected to the red wire.
- The CHK-WA Star HUB provides N(4-32) channels of bidirectional PRO Data, so the users can select one channel of PRO Data as the “Input Signal”, and the other channels of PRO Data as the “Output Signal”.

2.4 Install Application

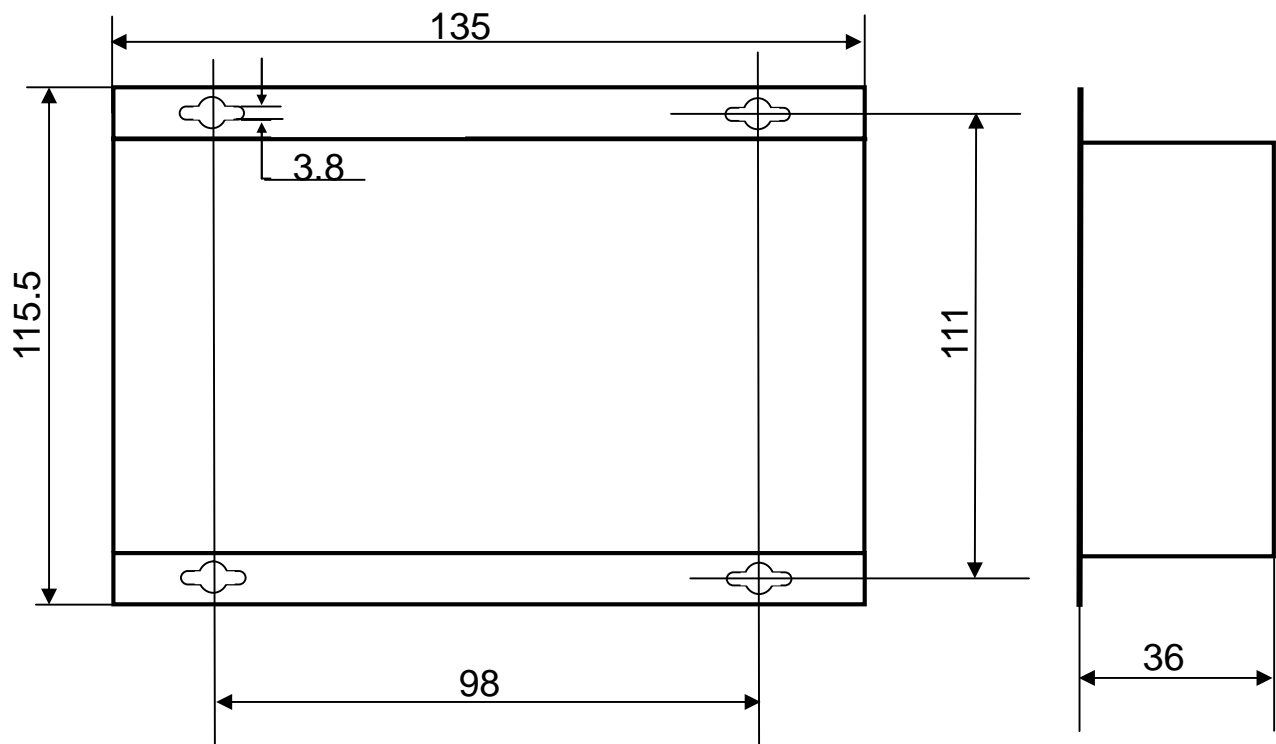


Application Diagram

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3 Dimensions (mm)

Wall Mount:



19" rack mounting

