

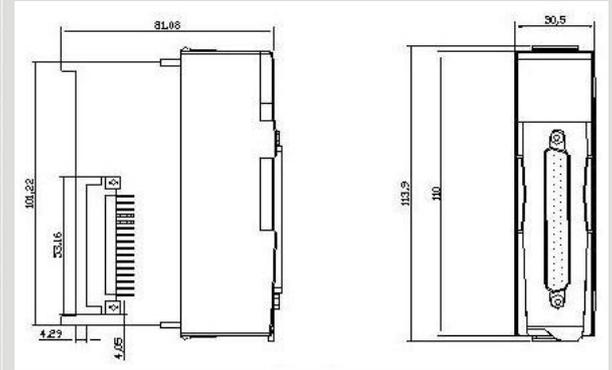


# HART Series Products

## HART module for PAC



**I-87H17W**



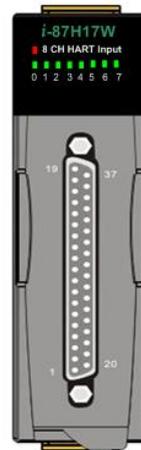
**Dimensions**

The I-87H17W is a HART analog input module. It is a data acquisition and control modules, providing analog-to-digital, and Highway Addressable Remote Transducer. The modules can be remotely controlled using a set of commands, which we call the DCON protocol. Communication between the module and the host is in ASCII format via an RS-485 bi-directional serial bus standard. Baud Rates are software programmable and transmission speeds of up to 115.2K baud can be selected. ICP DAS also provides API library for users to develop their own program by VC,VB , C# or VB.Net environment.

### Features

- Analog input capability with or without HART
- Real-time HART data acquisition
- Full read/write access to all device information
- Support 4 ~ 20 mA current input
- 2 or 4 wire transmitters of HART
- With a built-in resistor
- Open wire detection
- 4 kV ESD protection
- 2500 V<sub>DC</sub> intra-module isolation
- Built-in Watchdog
- RoHS compliance
- Support DCON Protocol
- Provide API library and demos
- Support XPAC, WinPAC series

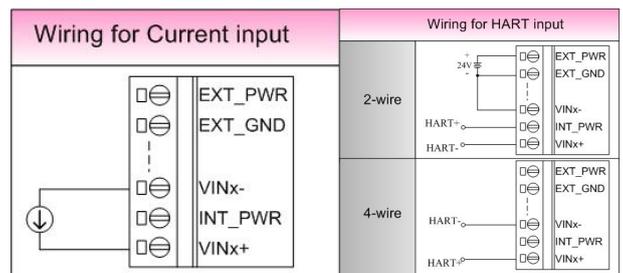
### Pin Assignments



Pin Assignment Name	Terminal No.	Pin Assignment Name
X	19	37 BK2
EXT_PWR	18	36 EXT_GND
VIN7-	17	35 INT_PWR7
VIN7+	16	34 EXT_GND
VIN6-	15	33 INT_PWR6
VIN6+	14	32 EXT_GND
VIN5-	13	31 INT_PWR5
VIN5+	12	30 EXT_GND
VIN4-	11	29 INT_PWR4
VIN4+	10	28 EXT_GND
VIN3-	09	27 INT_PWR3
VIN3+	08	26 EXT_GND
VIN2-	07	25 INT_PWR2
VIN2+	06	24 EXT_GND
VIN1-	05	23 INT_PWR1
VIN1+	04	22 EXT_GND
VIN0-	03	21 INT_PWR0
VIN0+	02	20 EXT_GND
BK1	01	

37-pin male D-Sub Connector

### Wiring





## Hardware Specifications

<b>Hardware</b>	
Input Channels	8 Differential 4-20 mA input channels
HART Wiring	2 or 4wire transmitters
HART Response Time	1s per single channel
Resolution	16-bit
Zero Drift	+/- 20 $\mu$ V/ °C
Span Drift	+/- 25 $\mu$ V / °C
Common Mode Rejection	86 dB
Normal Mode Rejection	100 dB
Input Impedance	400 Ohms
Common Voltage	-200V to +200V
Open Wire Detection	Yes
4KV ESD Protection	Yes, Contact for each terminal.
Intra-module Isolation, Field to Logic	2500V <sub>DC</sub>
<b>Watchdog</b>	
Dual Watchdog	Yes, Module(1.6 sec) and Communication(Programable)
<b>LED</b>	
LED Display	1 LED as Power Indicator 8 LED as HART Communication Indicator
<b>Power</b>	
Power Consumption	Maximum : 1.8W
<b>Mechanism</b>	
Dimensions	30mm x 102mm x 115mm(W x L x H)
<b>Environment</b>	
Operating Temp.	-25 °C ~ +75 °C
Storage Temp.	-30 °C ~ +85 °C
Humidity	5% ~ 95% RH, non-condensing

## Application

Current Measuring, Petrochemical Industry Application, Environment Monitoring, Tunnel Monitoring, Building Monitoring etc.

## Related Products

<b>Converters</b>	USB, RS-232, Fiber Optical to RS-485 Converters and Repeaters
<b>Power Supply</b>	24 V <sub>DC</sub> power supply
<b>Relay Module</b>	External relay modules for I-7000 DO module
<b>Learning Kit</b>	Beginner learning kit
<b>Application Books</b>	Application books designed with our products

## Ordering Information

<b>I-87H17W</b>	8-channel HART Current Input Module (Gray Cover) (RoHS)
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