

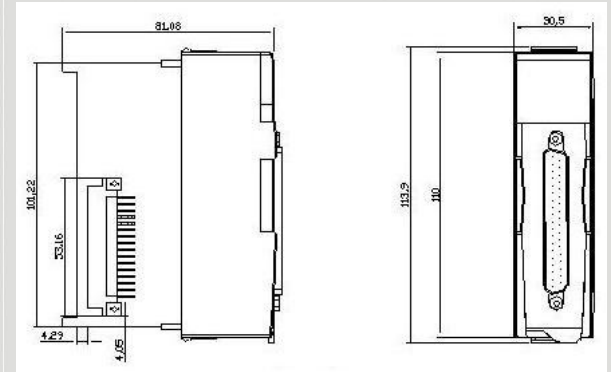


HART Series Products

HART AI module with 8 ch.



I-87H17W



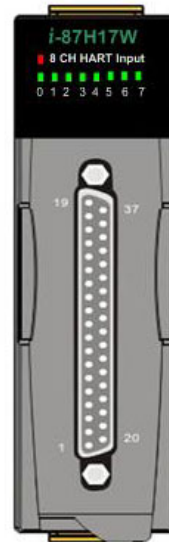
Dimensions

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
- Built-in HART Resistor (Max. 7 HART devices)
- Open wire detection
- 4 kV ESD protection
- 2500 V_{DC} intra-module isolation
- Built-in Watchdog
- RoHS compliance
- Support DCON Protocol
- Provide API library and demos
- Support XPAC / WinPAC / ViewPAC series

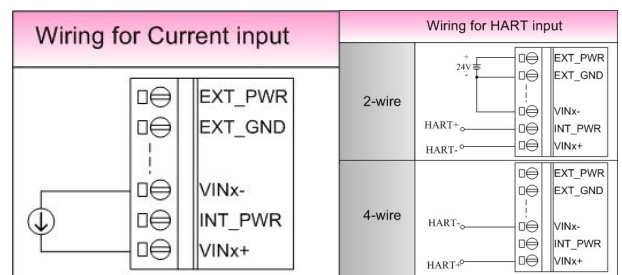
Pin Assignments



| 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

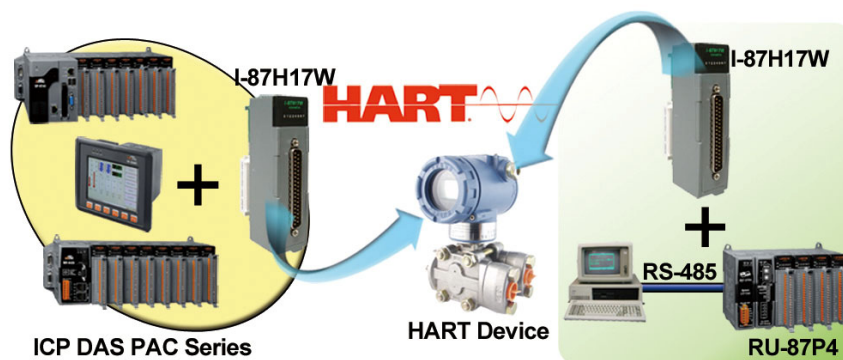
Wiring



Hardware Specifications

| Hardware | |
|--------------------------|---|
| Input Channels | 8 Differential 4-20 mA input channels |
| HART Wiring | 2 or 4 wire transmitters |
| HART Response Time | 1s per single channel |
| Max. HART devices | 7 (for HART Multi-Drop mode) |
| Resolution | 16-bit |
| Accuracy / Sampling Rate | +/- 0.1% FSR / 10Hz (Total) |
| Zero Drift | +/- 20µV/ °C |
| Span Drift | +/- 25µV / °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. |
| Isolation | UL1577 Spec. |
| Watchdog | |
| Dual Watchdog | Yes, Module(1.6 sec) and Communication(Programable) |
| LED | |
| LED Display | 1 LED as Power Indicator 8 LED as HART Communication Indicator |
| Power | |
| Power Consumption | Maximum : 1.8W |
| Mechanism | |
| Dimensions | 30mm x 102mm x 115mm(W x L x H) |
| Environment | |
| Operating Temp. | -25 ~ +75 °C |
| Storage Temp. | -30 ~ +80 °C |
| Humidity | 5% ~ 95% RH, non-condensing |

Application



Ordering Information

I-87H17W

8-channel HART Current Input Module (Gray Cover) (RoHS)