

Specification sheet for GW HM, HART to Modbus RTU Gateway



GW HM is a HART to Modbus Gateway used to interface HART Transmitter & field instruments with Modbus RTU based Monitoring & Control systems. Gateway converts HART signal to Modbus RTU Protocol and provides variables in fixed Modbus address registers.

General Specifications

- Up to 15 HART devices can be connected to a single HART to Modbus Gateway
- Support Modbus RTU Slave protocol
- Isolated RS-485 Port
- Provides configurable Baud rates for Serial RS485 MODBUS data transmission.
- LED Indications to monitor communication between Gateway & HART devices
- USB port for debugging communication frames

Supported HART and Modbus Commands

Command 0 : Read Unique Identifier
Command 3 : Read Dynamic Variables and Loop Current
Command 13 : Read Tag, Descriptor, Date
Command 15 : Read Device Information
Command 38 : Reset Configuration Changed Flag
Command 48 : Read Additional Device Status

Function code supported in Modbus RTU: 03 and 06

HART Interface

- HART Revision : 5, 6 and 7
- HART channel : 1
- Provision to select internal 250-ohm resistor or external load resistor
- DIP switch to enter in HART Discovery Mode (To discover newly connected HART devices)
- HART frame type : Short and Long frame
- Operating Mode : Point to Point or Multi-drop mode

Modbus RTU interface

- Serial port : RS485, 2 Wire, Screw type connector
- Data bits : 7,8
- Stop bits : 1,2
- Parity : None, Even, Odd
- Baud rate : 2400 to 115200 bps

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Console interface

- Port : USB. Mini USB connector
- Speed : USB 2.0 Hi-Speed (480 Mbits/Second) and Full speed 12 Mbits/Second compatible

Power Supply

- 24V DC (Range: 18 to 36V DC)
Screw type 3 pin connector with 3.81mm pitch

Accessories

- Console : Mini USB cable

Environmental Conditions

- Operating Temperature : -25° to 80°C
- Relative Humidity : 90 % Rh non condensing

Mechanical

- Enclosure : Phoenix, ABS, DIN Rail Mounting
- Dimension : 45 x 75 x 110 mm
- LED Indication : 1 Power ON, Tx and Rx for Modbus and HART communication each

Ordering Information : GW HM

GW HM : Base Code for HART to Modbus RTU Gateway

Connection Diagram simulating Analog Output

