

HART Series Products

Modbus RTU/ASCII to HART Gateway

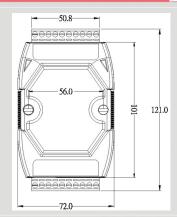








HRT-710



Dimensions

The HRT-710 Gateway is specially designed for the master device of HART protocol. It allows the Modbus master device to access the HART slave devices. These HART devices may be a transmitter, an actuator, a current output device and so forth. In addition, we also provide the utility software for users to configure the HRT-710. By using this module, users can integrate their HART devices into Modbus network easily.

Features

- Support HART Short/Long frame
- Support HART Burst mode
- Allow two HART Masters
- Working in point-to-point or multi-drop HART mode
- Connecting up to 15 HART modules
- Support Modbus RTU and ASCII format
- Support Modbus Slave mode
- Isolated COM 1: RS-232/422/485
- Provide LED indicators
- Built-in Watchdog
- 4KV ESD Protection

Modbus Support

Support the following Modbus commands.

Code	Name	Description
01	Read Coil Status	Read the ON/OFF status of discrete outputs in the slave
02	Read Input Status	Read the ON/OFF status of discrete inputs in the slave
03	Read Holding Registers	Read the binary contents of holding registers in the slave
04	Read Input Registers	Read the binary contents of input registers in the slave
05	Force Single Coil	Write a single output to either ON or OFF in the slave
06	Preset Single Register	Write an integer value into a single register in the slave
15	Force Multi. Coils	Write each coil in the sequence of coils to either ON or OFF in the slave
16	Preset Multi. Registers	Write a block of contiguous registers in the slave

Utility Features

- Read/Write HART device by HART command
- Provide diagnostic Information
- Read/Write module configuration of the HRT-710
- Show Modbus address of HART command



Pin Assignments



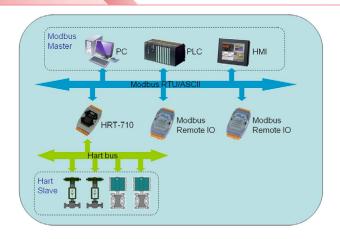




Hardware Specifications

Hardware Watchdog Watchdog IC ESD Protection 4 kV class A UART Interface COM 1 RS-232(3 wire)/RS-422/RS-485 COM 1 Connector 9-pin screwed terminal block Baud Rate (bps) 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 Protocol Modbus RTU / Modbus ASCII HART Interface 1 HART Channel 1 HART Device 2-wired or 4-wired HART devices HART Topology Point to Point or Multi-Drop HART Data Only Digital Data HART Frame Type Short and Long Frame Burst Mode Supported Max. HART Device 15 Loop Resistor 250 Ω resistor by Jumper Isolation Follow UL1577 Spec. Power Power Power consumption 1 W Mechanism Installation DIN-Rail or Wall Mounting Dimensions 72 mm x 35 mm x 121 mm (W x L x H) Detail Environment Operating Temp. -25 °C ~+75 °C Storage Temp. -30 °C ~+85 °C					
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	Operating Temp.	-25 °C ~ +75 °C			
Humidity 5% ~ 95% RH, non-condensing	Storage Temp.	-30 °C ∼ +85 °C			
2,0 ,0,0 1011, 1011 001140110110	Humidity	5% ~ 95% RH, non-condensing			

Applications



Ordering Information

HRT-710 CR Modbus RTU/ASCII to HART Gateway (RoHS)