

HART Series Products

Modbus to HART Gateway

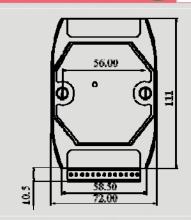








HART-710



Dimensions

The HART-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 HART-710. By using this module, users can integrate their HART device 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 16 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

Only the following Modbus commands are supported by the gateway.

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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 HART-710
- Show Modbus address of HART command



Pin Assignments



RS-232 TXD

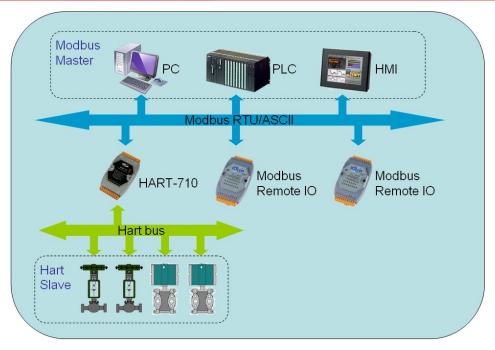




Hardware Specifications

Hardware			
CPU	32 bit, 100 MHz or compatible		
SRAM/Flash/EEPROM	64 KB / 512 KB / 16 KB		
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			
HART Interface	2-pin screwed terminal block		
HART Channel	1		
Power			
Power supply	Unregulated +10 ~ +30 V _{DC}		
Protection	Power reverse polarity protection, Over-voltage brown-out protection		
Power Consumption	1 W		
Mechanism			
Installation	DIN-Rail or Wall Mounting		
Dimensions	72 mm x 33 mm x 122 mm (W x L x H) Detail		
Environment			
Operating Temp.	-25 °C ~ +75 °C		
Storage Temp.	-30 °C ~ +85 °C		
Humidity	5% ~ 95% RH, non-condensing		

Applications



Ordering Information

HART-710 CR Modbus/HART Gateway (RoHS)