

HT-U1600 UI:16

Overview

The HT-U1600 features universal input points and communicates via the RS485 interface using the Modbus rtu protocol. It is designed for control applications requiring flexible I/O capacity. The product is built around a 32-bit ARM-core microcontroller, with 256 KB of Flash memory and 64 KB of RAM.



Applications

- The HT-U1600 is suitable for use in:Air handling units (AHU)
- Fresh air units
- Supply and exhaust fan units
- Chilled water units
- Collecting wells
- Environmental monitoring systems

Power Supply

24V (AC/DC)

Device Address

Set via DIP switches (binary coding)

Inputs

- 0 ~ 10V DC (Range: 0 ~ 100)
- Temperature NTC-10K
- Dry contact

Outputs

None

Dimensions

150*110*51.5 (L*W*H)

Material

ABS

Mounting

35 mm DIN rail mounting

HT-U1600 UI:16 Register Definition Description

Modbus rtu寄存器地址说明			
寄存器地址		模块端口	说明
BI点Input Status(0x02)寄存器地址			
10001		UI 1	干接点输入
10002		UI 2	干接点输入
10003		UI 3	干接点输入
10004		UI 4	干接点输入
10005		UI 5	干接点输入
10006		UI 6	干接点输入
10007		UI 7	干接点输入
10008		UI 8	干接点输入
10009		UI 9	干接点输入
10010		UI 10	干接点输入
10011		UI 11	干接点输入
10012		UI 12	干接点输入
10013		UI 13	干接点输入
10014		UI 14	干接点输入
10015		UI 15	干接点输入
10016		UI 16	干接点输入
AI点Input Register(0x04)寄存器地址			
30001		UI 1	输入端口(DC/0-10V)
30002		UI 2	输入端口(DC/0-10V)
30003		UI 3	输入端口(DC/0-10V)
30004		UI 4	输入端口(DC/0-10V)
30005		UI 5	输入端口(DC/0-10V)
30006		UI 6	输入端口(DC/0-10V)
30007		UI 7	输入端口(DC/0-10V)
30008		UI 8	输入端口(DC/0-10V)
30009		UI 9	输入端口(DC/0-10V)
30010		UI 10	输入端口(DC/0-10V)
30011		UI 11	输入端口(DC/0-10V)
30012		UI 12	输入端口(DC/0-10V)
30013		UI 13	输入端口(DC/0-10V)
30014		UI 14	输入端口(DC/0-10V)
30015		UI 15	输入端口(DC/0-10V)
30016		UI 16	输入端口(DC/0-10V)
AI点Input Register(0x04)寄存器地址			
30021		UI 1	输入端口(NTC-10K)
30022		UI 2	输入端口(NTC-10K)
30023		UI 3	输入端口(NTC-10K)
30024		UI 4	输入端口(NTC-10K)
30025		UI 5	输入端口(NTC-10K)
30026		UI 6	输入端口(NTC-10K)
30027		UI 7	输入端口(NTC-10K)
30028		UI 8	输入端口(NTC-10K)
30029		UI 9	输入端口(NTC-10K)
30030		UI 10	输入端口(NTC-10K)
30031		UI 11	输入端口(NTC-10K)
30032		UI 12	输入端口(NTC-10K)
30033		UI 13	输入端口(NTC-10K)
30034		UI 14	输入端口(NTC-10K)
30035		UI 15	输入端口(NTC-10K)
30036		UI 16	输入端口(NTC-10K)
AO点Holding Register(0x03/0x06) (波特率/输入端口类型设置)			
40011		/	波特率设置 (9600/19200)
40012		/	输入端口类型设置

HT-U1600 UI:16 Communication Specifications:

The Modbus RTU module has factory default communication parameters as follows:Baud rate: 19200.Data bits: 8.Stop bits: 1.Parity: None.Custom factory default baud rates are available upon request.Using the third-party tool ModbusPoll software, the values read from registers 40011 and 40012 correspond to the baud rate setting and input port type setting, respectively.The configured parameters will take effect after a power cycle.The device address is set via DIP switches.

I/O Port Configuration Guide:

For example, to configure input ports 1, 2, 5, 6, and 9 as analog inputs, and the remaining ports as digital inputs:(Where 0 = digital input, 1 = analog input)Set register 40012 to 307 via the Modbus RTU protocol.

输入端口16	输入端口15	输入端口14	输入端口13	输入端口12	输入端口11	输入端口10	输入端口9	输入端口8	输入端口7	输入端口6	输入端口5	输入端口4	输入端口3	输入端口2	输入端口1	换算成十进制
0	0	0	0	0	0	0	1	0	0	1	1	0	0	1	1	307

You can use the built-in calculator function on your computer to quickly convert binary numbers to decimal. Set the calculator to Programmer mode. To set a specific bit to 1, simply click the corresponding position to toggle it from 0 to 1, and vice versa, as shown in the figure below:

