YK-UD808 UI:8 BO:8

Overview

The UD808 features universal input points and communicates via the RS485 interface using the BACnet MS/TP 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 YK-UD808 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 (BO)

AC24V/DC24V

Dimensions

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

Material

ABS

Mounting

35 mm DIN rail mounting

YK-UD808 UI:8 BO:8 Register Definition Description

BACnet mstp (AI/BI) Register Address Description:

Register Address	Name	Module Port	Explanation
AI Point (DC/0-10V)Register Address			
AI1	AI-1	UI 1	Input port(DC/0-10V)
AI2	AI-2	UI 2	Input port(DC/0-10V)
AI3	AI-3	UI 3	Input port(DC/0-10V)
AI4	AI-4	UI 4	Input port(DC/0-10V)
AI5	AI-5	UI 5	Input port(DC/0-10V)
AI6	AI-6	UI 6	Input port(DC/0-10V)
AI7	AI-7	UI 7	Input port(DC/0-10V)
AI8	AI-8	UI 8	Input port(DC/0-10V)
AI Point (NTC-10K)Temperature register address			
AI9	Temperature-1	UI 1	Input port(NTC-10K)
AI10	Temperature-2	UI 2	Input port(NTC-10K)
AI11	Temperature-3	UI 3	Input port(NTC-10K)
AI12	Temperature-4	UI 4	Input port(NTC-10K)
AI13	Temperature-5	UI 5	Input port(NTC-10K)
AI14	Temperature-6	UI 6	Input port(NTC-10K)
AI15	Temperature-7	UI 7	Input port(NTC-10K)
AI16	Temperature-8	UI 8	Input port(NTC-10K)
AV Point (Temperature/Dry contact) and DC/0-10V Set the address of the selection register			
AV3	AI-1 settings	/	AI1 Function Selection Settings
AV4	AI-2 settings	/	AI2 Function Selection Settings
AV5	AI-3 settings	/	AI3 Function Selection Settings
AV6	AI-4 settings	/	AI4 Function Selection Settings
AV7	AI-5 settings	/	AI5 Function Selection Settings
AV8	AI-6 settings	/	AI6 Function Selection Settings
AV9	AI-7 settings	/	AI7 Function Selection Settings
AV10	AI-8 settings	/	AI8 Function Selection Settings
BI Point (Dry contact register address)			
BI1	BI-1	UI 1	Dry contact input
BI2	BI-2	UI 2	Dry contact input
BI3	BI-3	UI 3	Dry contact input
BI4	BI-4	UI 4	Dry contact input
BI5	BI-5	UI 5	Dry contact input
BI6	BI-6	UI 6	Dry contact input
BI7	BI-7	UI 7	Dry contact input
BI8	BI-8	UI 8	Dry contact input
BO Point (AC24V/DC24V)Output register address			
BO1	BO-1	BO1	Output port(AC24V/DC24V)
BO2	BO-2	BO2	Output port(AC24V/DC24V)
BO3	BO-3	BO3	Output port(AC24V/DC24V)
BO4	BO-4	BO4	Output port(AC24V/DC24V)
BO5	BO-5	BO5	Output port(AC24V/DC24V)
BO6	BO-6	BO6	Output port(AC24V/DC24V)
BO7	BO-7	BO7	Output port(AC24V/DC24V)
BO8	BO-8	BO8	Output port(AC24V/DC24V)
AV Point (Baud rate/Address Code Setting)			
AV1	baud rate		Baud Rate Setting (19200/38400/76800)
AV2	device id		Address Code Setting

BACnet mstp (AI/BI) Register Address Description:

Register Address	Name	Module Port	Explanation
AV Point (DC/0-10V)Register Address			
AV1	UI-1	UI 1	Input port(DC/0-10V)
AV2	UI-2	UI 2	Input port(DC/0-10V)
AV3	UI-3	UI 3	Input port(DC/0-10V)
AV4	UI-4	UI 4	Input port(DC/0-10V)
AV5	UI-5	UI 5	Input port(DC/0-10V)
AV6	UI-6	UI 6	Input port(DC/0-10V)
AV7	UI-7	UI 7	Input port(DC/0-10V)
AV8	UI-8	UI 8	Input port(DC/0-10V)
AV Point (NTC-10K)Temperature register address			
AV9	Temperature-1	UI 1	Input port(NTC-10K)
AV10	Temperature-2	UI 2	Input port(NTC-10K)
AV11	Temperature-3	UI 3	Input port(NTC-10K)
AV12	Temperature-4	UI 4	Input port(NTC-10K)
AV13	Temperature-5	UI 5	Input port(NTC-10K)
AV14	Temperature-6	UI 6	Input port(NTC-10K)
AV15	Temperature-7	UI 7	Input port(NTC-10K)
AV16	Temperature-8	UI 8	Input port(NTC-10K)
AV Point (Temperature/Dry contact) and DC/0-10V Set the address of the selection register			
AV19	UI-1 settings	/	UI1 Function Selection Settings
AV20	UI-2 settings	/	UI2 Function Selection Settings
AV21	UI-3 settings	/	UI3 Function Selection Settings
AV22	UI-4 settings	/	UI4 Function Selection Settings
AV23	UI-5 settings	/	UI5 Function Selection Settings
AV24	UI-6 settings	/	UI6 Function Selection Settings
AV25	UI-7 settings	/	UI7 Function Selection Settings
AV26	UI-8 settings	/	UI8 Function Selection Settings
BV Point (Dry contact register address)			
BV1	DI-1	UI 1	Dry contact input
BV2	DI-2	UI 2	Dry contact input
BV3	DI-3	UI 3	Dry contact input
BV4	DI-4	UI 4	Dry contact input
BV5	DI-5	UI 5	Dry contact input
BV6	DI-6	UI 6	Dry contact input
BV7	DI-7	UI 7	Dry contact input
BV8	DI-8	UI 8	Dry contact input
BV Point (AC24V/DC24V)Output register address			
BV9	DO-1	BO1	Output port(AC24V/DC24V)
BV10	DO-2	BO2	Output port(AC24V/DC24V)
BV11	DO-3	BO3	Output port(AC24V/DC24V)
BV12	DO-4	BO4	Output port(AC24V/DC24V)
BV13	DO-5	BO5	Output port(AC24V/DC24V)
BV14	DO-6	BO6	Output port(AC24V/DC24V)
BV15	DO-7	BO7	Output port(AC24V/DC24V)
BV16	DO-8	BO8	Output port(AC24V/DC24V)
AV Point (Baud rate/Address Code Setting)			
AV17	baud rate		Baud Rate Setting (19200/38400/76800)
AV18	device id		Address Code Setting

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Communication Specifications:

The BACnet MS/TP module has a factory default baud rate of 76800. Custom factory default baud rates are available upon request.The device address is set via DIP switches (binary coding), with a maximum address of 63 via hardware. Addresses above 63 require software configuration. The DIP switch setting also corresponds to the device MAC address.

I/O Port Configuration Guide:

To configure a port for 0－10V DC input, set the corresponding UI(X)-settings object value to 1.