



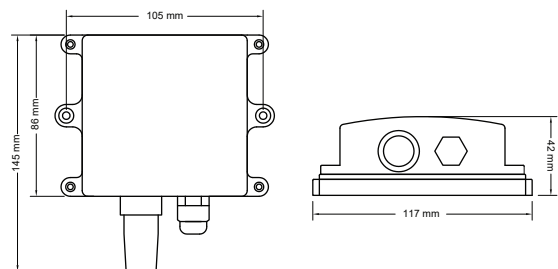
HM-004N, HM-005N



HM-006N



DIMENSION



DESCRIPTION

- Measure temperature and humidity in one device and convert temperature and humidity signal to be standard electrical signal (Output).

- DC Current 4-20mA
- DC Voltage 0-10VDC
- DC Voltage 0-5VDC (For HM-004-03 Only)
- DC Voltage 1-3VDC (For HM-004-02 Only)
- RS485 (Protocol RTU Modbus)
- Baud Rate : 4800, 9600, 19200, 38400 bps

- Temperature measuring range 0-100°C.
- Humidity measuring range 0-100%.
- Suitable for ceiling or wall indoor.
- Can install in dust and water stream area.

WIRING DIAGRAM

HM - 004N - 00 1: + Supply 24 VDC (15-30VDC) 2: - COM/GND 3: - COM/GND 4: - COM/GND 5: Humidity 0-100% RH (0-10 VDC) 6: Temp 0-100 °C (0-10 VDC)	HM - 004N - 01 1: + Supply 24 VDC (15-30VDC) 2: - COM/GND 3: - COM/GND 4: - COM/GND 5: Humidity 0-100% RH (0-10 VDC)	HM - 004N - 02 1: + Supply 8 VDC 2: - COM/GND 3: - COM/GND 4: - COM/GND 5: Humidity 0-100% RH (1-3 VDC)
HM - 004N - 03 1: + Supply 24 VDC (15-30VDC) 2: - COM/GND 3: - COM/GND 4: - COM/GND 5: Humidity 0-100% RH (0-5 VDC)	HM - 005N - 00 1: + Supply 24 VDC (15-30VDC) 2: - COM/GND 3: - COM/GND 4: - COM/GND 5: Humidity 0-100% RH (4-20 mA) 6: Temp 0-100 °C (4-20 mA)	HM - 005N - 01 1: + Supply 24 VDC (15-30VDC) 2: - COM/GND 3: - COM/GND 4: - COM/GND 5: Humidity 0-100% RH (4-20 mA)

ADDRESS AND COMMUNICATION SETTING FOR HM-006N

Address Setting

โดย 6 บิตแรกจะเป็น Address Selector และ 2 บิตหลังจะเป็น Baud Rate Selector

Address Selector	Baud Rate Selector	Baud Rate Selector
SW1	SW2	
000001 = Address 1, 9600 bps	0000 = "0" = Data 8 Bits, None, 1 Stop Bit	0 = 4800 bps
010100 = Address 20, 38400 bps	0001 = "1" = Data 8 Bits, None, 2 Stop Bit	1 = 9600 bps
	0010 = "2" = Data 8 Bits, Odd, 1 Stop Bit	2 = 19200 bps
	0011 = "3" = Data 8 Bits, Odd, 2 Stop Bit	3 = 38400 bps

Communication Setting

Communication Selector	Communication Selector
SW2	
0000 = "0" = Data 8 Bits, None, 1 Stop Bit	0 = Data 8 Bits, None, 1 Stop Bit
0001 = "1" = Data 8 Bits, None, 2 Stop Bit	1 = Data 8 Bits, None, 2 Stop Bit
0010 = "2" = Data 8 Bits, Odd, 1 Stop Bit	2 = Data 8 Bits, Odd, 1 Stop Bit
0011 = "3" = Data 8 Bits, Odd, 2 Stop Bit	3 = Data 8 Bits, Odd, 2 Stop Bit
	4 = Data 8 Bits, Even, 1 Stop Bit
	5 = Data 8 Bits, Even, 2 Stop Bit

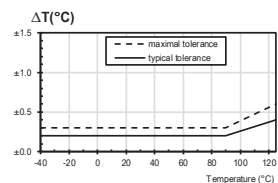
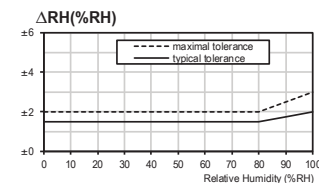
Modbus Table

Address	Contents	Format	Word	Byt	Access
0	% RH _{avg}	signed int	1	2	Read Only
1	Temp _{avg}	signed int	1	2	Read Only
2	Dew Point _{avg}	signed int	1	2	Read Only
3	Slave Address _{avg}	Unsigned int	1	2	Read Only
4	Baud rate _{avg}	Unsigned int	1	2	Read Only
5	Communication _{avg}	Unsigned int	1	2	Read Only

Modbus Function code

Function code	Operation	Broadcast
0x03	Read Holding Registers	Yes
0x04	Read Multiple Registers	Yes

Accuracy Graph



ORDERING CODE

Output	Option
004N DC Voltage : 0 - 10 VDC	00 Humidity & Temperature
005N DC Current : 4 - 20 mA	01 Humidity
006N RS485 *(HM-006N-00 Only)	02 Humidity 1-3VDC (output) *(HM-004N Only)
	03 Humidity 0-5VDC (output) *(HM-004N Only)

1: + Supply 24 VDC (15-30VDC)
2: - COM/GND
3: B RS485
4: A RS485



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