

Please read the instruction manual carefully for correct use. The specification and dimensions provided in the instruction manual is subject to change without notice for product performance.

△ Warning!

- 1. The product is not manufactured as a safety device; therefore, dual safety devices are required if the product is used as controlling devices or cases with concern of casualties or serious damage to the peripheral and significant property damage.
- 2. Do not perform wiring, inspection, and maintenance while power connected.
- 3. Terminal numbers must be checked when connecting power.
- The equipment must not be disassembled, processed, improved, or repaired.

△ Caution!

- Please understand how to use, safety regulations, or warnings before the equipment is installed. The equipment must be used within the provisions and capacity provided in the manual.
- Do not perform wiring and installation in motors with large inductive load and solenoid.
- Use the same line when extending sensors and do not use excessive length.
- Do not use parts that create an arc when switching nearby or the same power.
 The power line should be away from high-tension power cables and avoid
- The power line should be away from high-tension power cables an installation in areas with high moisture, oil, and dust.
- Avoid installation in direct sunlight and areas exposed to rain.
- Avoid installation in areas with high magnetic, noise, vibration, and impact.
 The equipment should be installed sufficiently distant from strong alkali and strong acid substances.
- When the equipment is installed in the kitchen, do not spray water directly onto the equipment for cleaning.
- Do not install in places with high temperature/humidity that exceed the rate.
- Care should be provided not to disconnect sensor cables or cause damage.
- Sensor cables require significant distance from signal line, power, motive powe
- and load line and use independent pipes.
 No warranty service shall be provided if the product has been altered or tampered with.
- The mark on the wiring terminals is safety statement, such as warning or caution.
- Do not use the product near machines that generate strong high-frequency noise (high frequency welding machine, high-frequency sewing machine, high-frequency radios, large SCR controller).
- The product may cause injury or property damage if used for purposes not intended by the manufacturer.
- Do not leave the product within reach of children as the equipment is not a toy.
 Installation must be performed by professionals or gualified individual.
- The company shall not be held responsible for any damage caused by negligence of consumers or due to non-conforming of the warnings or caution statements aforementioned.

▲ Danger!

- Caution, risk of electric shock
- Electric shock– Do not contact with AC terminal during current carrying. This may cause electric shock.
- Input power must be blocked when checking input power.

فروشگاه اینترنتی برق صنعتی، ابزاردقیق و اتوماسیون صنعتی

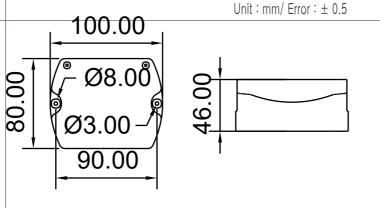
| Input power | More than 24VDC 100r | mA Display accuracy | \pm 1% rdg \pm 1 digit | | | | |
|----------------|--|---------------------|----------------------------|--|--|--|--|
| Display method | 7 segr | git 2 Line | | | | | |
| Output | (Temperature and humidity) current output 4-20mA | | | | | | |
| Sensor | Sensor name | Temperature range | Humidity range | | | | |
| 2611301 | SHT - 11 | -39.9℃~80.0℃ | C 0%~100%Rh | | | | |
| Communication | RS485, MODBUS RTU, Data 8 bit , Parity None , Stop bit 1 | | | | | | |
| Ambient range | -39.9~80.0℃,0~100%Rh | | | | | | |
| | | | | | | | |

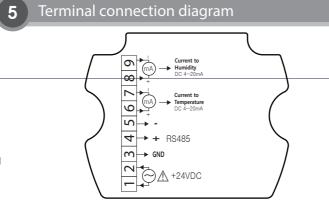
Product specification

Name of each part

Communication state

Appearance specification and dimension





6 Setting range and default set

| Classification | S | etting menu | Setting range | Default set | | |
|-------------------------|---------------------------|--------------------------------------|--|-------------------------|--|--|
| | H.[_ Humidity calibration | | -10.0~10.0%Rh | 0.0%Rh | | |
| Humidity | H.HE | Sensor heating setting | 965 / no | no | | |
| settings | H.20 | PV transmission 20mA humidity | H.4 ~ 100% | 100% | | |
| | Н.Ч | PV transmission 4mA humidity | 0~H.20% | 0% | | |
| | E.Co | Temperature calibration | -10.0~10.0℃ | ℃.0 | | |
| Temperature settings | £.20 | PV transmission 20mA temperature | T.4 ~ 80.0℃ | ℃0.08 | | |
| | £.4 | PV transmission 4mA temperature | -40.0 ~ T.20℃ | -40.0℃ | | |
| | Rdr | 485 communication address setting | 1~32 | 1 | | |
| Communication | 6PS | 485 communication speed setting | 120 : 1200bps 240 : 2400bps 480 : 4800bps 950 : 9600bps 192 : 19200bps | <i>960</i> (9600Bps) | | |

Detail description of the function

Pressing the O key for 5 seconds in the operation screen will enter the detail settings. Change menu by pressing $\bigtriangleup \nabla$ setting value change O key 1 time. After adjusting the set value, press O key for 3 or more seconds to save and return to the operation screen

1 H.Co humidity calibration

The displayed value can be set to the actual measured humidity when the current humidity display value and the humidity measured by using a precision instrument differ.

Example 1) Display value: 5%, the actual measured humidity: 10% => COR +5% input Example 2) Display value: 5%, the actual measured humidity temperature: 2% => COR -3% input

2 H.H. Humidity sensor heating function

Dew forms around the sensor devices if humidity is extremely high; hence, the function generated heat inside the sensor to prevent dew formation if the current humidity is 95% or more.

<u>YE5</u> The heating function operates automatically in 95% or more humidity and the function is disabled when humidity level is below 95%.

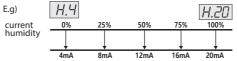
no The automatic heating function is not used.

Caution 1. When the humidity sensor heating function is in operation, the current temperature of the display window may increase slightly.

3 H.20 Humidity setting for 20 mA current output at PV transmit output

H.Y Humidity setting for 4mA current output at PV transmit output

It is for sending the current humidity to the current output. The humidity range set in H.20 and H.4 is divided equally and output to 4 - 20mA current.



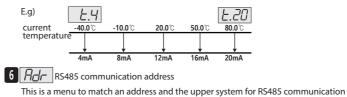
4 E.Co Temperature calibration

The displayed value can be set to the actual measured temperature when the current temperature display value and the temperature measured by using a precision instrument differ. Example 1) Display value: 5.0° , the actual measured temperature: $10.0^{\circ} = > \text{COR} + 5.0^{\circ}$ input Example 2) Display value: 5.0° , the actual measured temperature: $2.0^{\circ} = > \text{COR} - 3.0^{\circ}$ input

5 E.20 Temperature setting for 20 mA current output at PV transmit output

E.Y Temperature setting for 4mA current output at PV transmit output

It is for sending the current humidity to the current output. The temperature range set in T.20 and T.4 is divided equally and output to 4 - 20mA current.



I his is a menu to match an address and the upper system for KS485 communicat

7 <u>bP5</u> RS485 Communication speed This is a menu to match communication speed and the upper system for RS485 communication

120: 1200BPS, 240: 2400BPS, 480: 4800BPS, 960: 9600BPS, 192: 19200BPS

Communication description

- * RS485 MODBUS RTU type protocol is embedded.
- * Asynchronous 2-wire half-duplex communication method
- * Communication distance: Within 1.2Km
- * Communication speed: 1200 / 2400 / 4800 / 9600/ 19200Bps
- * Start bit: 1 bit, stop bit: 1 bit, parity bit: None, data bit: 8 bit

<Func 0x02 : Read Discrete Inputs>

You can receive brief information of status, etc. in a bit form.

| Reque | 51 | <i>c</i> , , | | N1 1 | 61. | 0 | 0010 | | | | | | |
|--|---|--|---|---|---|--|--|---|--|---|---------|----------|----------|
| Sub -product | Commend | Start nu Upper | Lower | Upper | r of data Lower | Lowe | RC16 r Uppe | r | quest | | | | |
| address | | byte | byte | byte | byte | byte | e byte | Hes | sponse | = 01 | 02 0 | 1 00 | A1 88 |
| 1BYTE | 0x02 | 1BYTE | IBAIF | IBAIF | 1BYTE | IBYI | EIBYT | E | | C | 000 | 000 | 00 |
| Respoi | nse | | | CF | RC16 | | | | | | 1(| 2000 | 1 |
| Sub -product address | Commend | Number of bytes | Data | Lower | | r | | | | | | 0000 |) |
| 1BYTE | 0x02 | 1BYTE | 1BYTE | 1BYTI | E1BYT | E | | | | | e | error | : |
| MAP | | | | | | | | | | | | _ | |
| NO 100001 | Addre 0000 | _ | | escript sor open | | | bit0 | | ange or, 1: Open | error | Uni | t Ou | tput va |
| <func< td=""><td>0~01 .</td><td>Road</td><td>Innut</td><td>e Roa</td><td>ictore`</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></func<> | 0~01 . | Road | Innut | e Roa | ictore` | | | | | | | | |
| You ca | | | | | | | h as ci | urrent | temp | eratu | re, ci | urre | nt |
| humid | | | | | | | | | ple inform | | | | |
| Reque | st | | | | | | | | or status & | | | | |
| Sub -product | Commend | Start n | | | er of data | | RC16 | | Number of | bytes = | Numb | er of d | ata * 2 |
| address | Commenta | Upper byte | Lower byte | Upper byte | Lower byte | Lowe byte | | er i | Number of | | | | |
| 1BYTE | 0x04 | 1BYTE | 1BYTE | 1BYTE | 1BYTE | 1BYT | E1BY | 1 1 | receive 10 | | | | -7 |
| Respo | nse | | | | | | | | | | | | |
| Sub | Correct | Number | | TA 1 | | DAT | | | C16 | | | | |
| -product address | Commend | of bytes | Upper byte | Lower byte | | Jpper byte | Lower byte | Lower byte | Upper byte | | | | |
| 1BYTE | 0x04 | 1BYTE | 1BYTE | 1BYT6 | = 11 | BYTE | 1BYTE | 1BYTE | 1BYTE | | | | |
| MAP | | | - | | | | | 2 | | | | <u> </u> | |
| NO 300001 | Addres 0000 | SS | Current | scripti | | | 4 | | nge | | Unit | Out | out Va |
| 300002 | | | | | | | -4 | | 80.0 C | , | | | |
| | 0001 | | | nt hum | idity | | | 0~ 1 | 80.0°C 00.0% | | | | |
| 300003 | 0002 | Tomr | Senso | nt hum r open | idity error | | bit0 0: | 0~ 1 No erro | 00.0% r, 1: Ope | n error | | | |
| 300003 300004 300005 | 0002 0003 0004 | Hun | Senso perature PV hidity PV tra | nt hum r open transmission | idity error on output cu output curr | urrent ent | bit0 0: 4 | 0~ 1 No erro .0mA~ | 00.0% | n error | | | |
| 300003 300004 300005 <func You can Reques Sub -product address</func | 0002 0003 0004 0x03 : read th st | Hun Read ne setti Start nu Upper byte | Senso perature PV nidity PV tra Holdi ng men umber Lower byte | nt hum r open transmission nsmission ng Re nu. Number byte | idity error on output con output curro egister r of data | C Lower byte | bit0 0: 4 4 RC16 r Uppe | 0~ 1 No erro 1.0mA~ | 00.0% r, 1: Ope -20.0m/ | n error 4 4 bytes = | | | |
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| 300003 300004 300005 Vou can Reques ^{Sub} -product address 1BYTE Respor ^{Sub} -product address | 0002 0003 0004 0x03 : read th st Commend 0x03 1SE | Hun Read ne setti Start nr Upper byte 1BYTE | Senso serature PV inidity PV tra Holding men umber Lower byte 1BYTE DAT | nt hum r open transmission ng Re nu. Number byte I BYTE | idity error on output corror egister r of data Lower byte 1BYTE | C C Lower byte DATI, Jpper byte | RC16 r Upper E 1BYT A n Lower byte | 0~ 1 No erro .0mA~ .0mA~ | 00.0% r, 1: Oper 20.0m/ -20.0m/ Jumber of Jumber of Upper byte | n error 4 4 bytes = | | | |
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| 300003 300004 300005 You can Reques ^{Sub} Product address 1BYTE Respor Sub Product address | 0002 0003 0004 0x03 : read th st 0x03 1Se 0x03 0x03 | Hum Read Start nr Upper byte 1BYTE Number of bytes 1BYTE | Senso Senso Holdi Ing mei Lower byte IBYTE DAA Upper byte IBYTE | nt hum r open ransmission ng Re nu. Numbee byte BYTE BYTE 1BYTE 1BYTE | idity error on output cum gister of data Lower byte 1BYTE | Urrent ent S S Lowe byte 1BYT DATI Jpper byte | RC16 r Upper ElBYTE Lower byte | 0~ 1 No erro .0mA~ .0mA~ | 00.0% r, 1: Oper 20.0m/ -20.0m/ Jumber of Jumber of Upper byte | n error 4 4 bytes = | | | |
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| 300003 300004 300005 You can Reques ^{Sub} -product address 1BYTE Respor -product address 1BYTE Sub You can Reques Sub | 0002 0003 0004 0x03 : read th st 0x03 0x03 0x03 0x06 : change st | Hum Read Start nu Upper byte 1BYTE Number 1BYTE Write e the set | Senso Senso Holdi Ing men Lower byte IBYTE DA' Day Byte Single Single | nt hum r open transmission ng Re nu. Numbee BYTE BYTE byte 1BYTE 1BYTE 2000 Ra 1 BYTE 000 Regi menu h | idity error in output curve gister or of data 1BYTE 1BYTE 1BYTE 1BYTE 1BYTE 1BYTE | C C C C C C C C C C C C C C C C C C C | RC16 r Upper E 1BYTE 1BYTE | 0~1 1 No error .0MA^ .0MA^ | 00.0% r, 1: Oper -20.0m/ -20.0m/ -20.0m/ -20.0m/ -10.0m/ -10.0m/ -10.0m/ -2 | n error A bytes = data = 2 | 23 data | if 23, r | eceive 4 |
| 300003 300004 300005 Vou can Reques ^{Sub} -product address 1BYTE Respor Sub -product address 1BYTE Sub -product address 1BYTE | 0002 0003 0004 0x03 : read th st 0x03 0x03 0x03 0x06 : change | Hum Read Start nu Upper byte 1BYTE Number of bytes 1BYTE Write e the se | Senso Senso Holdi Ing meu Lower byte IBYTE DAN Upper byte IBYTE Single | nt hum r open Iransmission ng Ré nu. Numbee BYTE BYTE BYTE 1BYTE 1BYTE | idity error in output curve gister or of data 1BYTE 1BYTE 1BYTE 1BYTE 1BYTE 1BYTE 1BYTE | C C Lower byte DAT. Jpper byte | RC16 RC16 r Uppe byte BYTE | 0~1 No error .0mA^ .0mA^ .0mA^ .0mA^ IBYTE | 00.0% r,1:Oper 20.0m/ -20.0m/ -20.0m/ -20.0m/ -100 -1 | n error A bytes = data = 7 data = 7 | 23 data | if 23, r | eceive + |
| 300003 300004 300005 Vou can Reques -product address 1BYTE Respor Sub -product address 1BYTE Vou can Reques You can Reques | 0002 0003 0004 0x03 : read th st 0x03 0x03 0x03 0x06 : change st | Hum Read Start nr Upper byte 1BYTE Number of bytes 1BYTE Write e the se Writing Upper byte | Senso Senso Holdi Ing mer Lower 1BYTE DA'A Upper byte 1BYTE Single etting r | nt hum r open transmissica ng Re nu. Numbee BYTE BYTE BYTE 1BYTE Pre BYTE 1BYTE | idity error in output car gister gister 1BYTE 1BYTE 1E 1E sters> by one ATA | C Lowerbyte 1BYT DATIJ JPper byte 3YTE C C Lowerbyte | RC16 RC16 r Uppe byte BYTE | 0~1 No error .0MA^ .0MA^ r r E U t byte IBYTE | 00.0% r,1:Opei -20.0m/ -20. | n error A bytes = data = 7 data = 7 | 23 data | if 23, r | eceive + |
| 300003 300004 300005 You can Reques ^{Sub} -product address 1BYTE Respon Sub -product address 1BYTE You can Reques You can Reques 1BYTE | 0002 0003 0004 0x03 : read th 5t 0x03 0x03 0x06 commend 0x03 0x06 change st 0x06 | Hum Read Start nr Upper byte 1BYTE Number of bytes 1BYTE Write e the se Writing Upper byte | Senso Senso Holdi Indity PV tra- lidity PV tra- byte byte byte DA' DA' DA' DA' DA' DA' DA' DA' DA' DA' | nt hum r open transmissica ng Re nu. Numbee BYTE BYTE BYTE 1BYTE Pre BYTE 1BYTE | idity error in output car gister gister 1BYTE 1BYTE 1E 1E sters> by one ATA | C Lowerbyte 1BYT DATIJ JPper byte 3YTE C C Lowerbyte | RC16 r Upper E IBYTE IBYTE RC16 r Upper Byte | 0~1 No error .0MA^ .0MA^ r r E U t byte IBYTE | 00.0% r,1:Oper 20.0m/ -20.0m/ -20.0m/ -20.0m/ -100 -1 | n error A bytes = data = 7 data = 7 | 23 data | if 23, r | eceive + |
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| 300003 300004 300005 You can Reques ^{Sub} -product address 1BYTE Respor You can Reques 1BYTE You can Reques 1BYTE You can Reques 1BYTE Sub -product address | 0002 0003 0004 0x03 : read th 5t 0x03 0x03 0x03 0x06 commend 0x06 st 0x06 commend | Hum Read Start nr Upper byte 1BYTE 1BYTE Write te the sec Writing Upper byte 1BYTE Writing Upper byte | Senso Senso Holdi Ing mer Lower 1BYTE DA'A Uppre 1BYTE Single etting r Address Lower 1BYTE | nt hum r open transmission ng Rê nu. Numbee BYTE BYTE BYTE BYTE BYTE BYTE DA Upper byte | idity error in output car gister of data 1BYTE 1BYTE 1g sters> oy one 1g ta byte 1BYTE | Urrent ent S> IBYT DATA Jopper byte 3YTE C Loweet byte 3YTE C Lowet byte C Lowet byte | RC16 r Upper Byte Byte Byte Byte RC16 r Upper Byte Byte Byte Byte Byte Byte Byte Byte | 0~1 No error .0MA~ .0MA~ .0MA~ IBYTE IBYTE IBYTE | 00.0% r,1:Oper 20.0m/ -20.0m/ -20.0m/ -20.0m/ -100 -1 | n error A bytes = data = 7 data = 7 | 23 data | if 23, r | eceive + |

| <func 0x10="" :="" multiple="" registers="" write=""></func> | |
|--|--|
| You can change the setting menu by multiple items. Request A multiple number of registers may not be written if there is an error in one of the data. | |
| Sub- product address Start number Number of data byte DATA 1 DATA n CRC16 1BY TE 0x10 1BYTE | |
| Response | |
| Sub -product address Commend Upper byte byte Upper byte b | |
| 1вуте 0x10 1вуте 1вуте <th< th=""><th></th></th<> | |
| NO Address Description Range Unit Output Value 400001 0000 Humidity COR -10 ~ 10% % 0% 400002 0001 Whether to use sensor heating 0 : YES , 1 : NO NO | |
| 400003 0002 PV transmission 20mA humidity H.4 ~100% % 100% 400004 0003 PV transmission 4mA humidity 0 ~ H.20% % 0% 400005 0004 RS485 communication address 1~32 1 | |
| 400006 0005 RS485 communication speed 1200/2400/4800/9600/19200 BPS 9600 400007 0006 Temperature COR -10.0 ~ 10.0° °C 0.0°C 400008 0007 PV transmission 20mA temperature T.4 ~80.0°C °C 80.0°C 400009 0008 PV transmission 4mA temperature -40.0 ~ T.20°C °C -40.0% | |
| 9 A simple troubleshooting technique | |
| ■ If error is displayed while using the product | |
| Erl is displayed when the DATA memory element is damaged inside the product as it is affected by powerful noise from outside while | |
| in use. In such a case, contact our company for customer service. | |
| While the controller is equipped with supplementary measures for outside noise, it cannot endure infinite noise. | |
| • Noise (2KV) abnormality may damage inside of the unit. σ^{-E} display means communication defect with the sensor. Please check connection, wire short, and connection order to the sensor. If the problem persists, please contact our customer service department. | |
| L-E or H-E is displayed when humidity and temperature exceed the display range. If the error is displayed despite maintaining normal surrounding temperature and humidity, please contact our customer service department. | |
| • Quality Guarantee Period: One year from the date of purchase. | |
| * The above specifications are subject to change without prior notice to improve product performance. Please read and understand thoroughly the precautions stated in the | |
| handling precautions. ■ Address: 26 Yunsan-ro, Geumjeong-gu, Busan 232-28 Bugok-dong, Geumjeong-gu, Busan | |
| Customer Service: +82-70-7815-8266 Inquiry: +82-51-819-0425 ~ 0427 Homepage: www.conotec.co.kr | |
| Email: conotec@conotec.co.kr * This instrument is suitable in the following environment: Disite transcripting (hymidity controller | |
| Ambient temperature: 0° - 60° Ambient humidity: Below 80%Rh | |
| Rated power: 24VDC 100mA | |
| | |
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