

 **neptronic**  
**CMMB100-Dual**  
**Mini-Input-**  
**Communication**  
**Module**



# neptronic CMMB100 Dual Mini Input Communication Module Instruction Manual

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**neptronic CMMB100 Dual Mini Input Communication Module**



### Specifications:

- **Model:** CMMB100
- **Input Voltage:** Universal
- **Communication:** BACnet, Modbus
- **Operational Temperature:** TBD
- **Storage Temperature:** TBD
- **Relative Humidity:** TBD
- **Weight:** TBD
- **Dimensions:**
  - A = 3.18 / 81 mm
  - B = 4.93 / 125 mm
  - C = 2.27 / 58 mm

### Product Usage Instructions

#### Connections and Configurations:

Please note that all jumper settings must also be set to the same value through BACnet. Some additional configurations are only available through BACnet.

#### Network Settings:

- **Mode:**
  - **If BACnet:**
    - Auto Detect (default)

- Manual settings available through DS2-1 & DS2-2
- **If Modbus:**
  - Config via Modbus Register
  - No parity, 2 stop bits
- **Baud Rate:**
  - 9600, 19200, 38400, or 76800 (BACnet) / 57600 (Modbus)
- **MAC Address:** Set using the 8 DIP switches representing a binary logic.

#### **Network Port and Inputs:**

- End of Line: Default is None, with an option for 120 ohms.
- **Network Port:**
  - **A+:** BACnet/Modbus A+
  - **B-:** BACnet/Modbus B-
  - **BCOM:** Common
- **Voltage Input:** Max 175mA, supports both 24 Vac or Vdc.

#### **LED Indicators:**

- Power On/Off
- **Status Flashing:** Normal operation
- **RX/TX Flashing:** Indicates receiving/transmitting data for BACnet or Modbus
- **Input Status:** Indicates input status – On/Off/Flashing based on connection

#### **FAQ**

- **How do I configure the MAC address on the CMMB100?**
  - The MAC address can be configured using the 8 DIP switches on DS1. The default setting is all OFF, but you can set binary logic to calculate the MAC address.
- **What are the default settings for Baud Rate and Mode options?**
  - The default setting for Baud Rate is based on the communication protocol: 76800 for BACnet and 57600 for Modbus. The default mode is Auto Detect for BACnet and Config via Modbus Register for Modbus.

#### **Description**

The CMMB extends your BACnet or Modbus network when your application requires additional inputs on a physical controller. Combining the 8 inputs of the CMMB with your Building Automation System provides simple expansion of a new or existing controller and reduces unnecessary costs of additional components.

#### **Features**

##### **Power & Communication**

- 24Vac or 24Vdc supply
- BACnet® MS/TP or Modbus communication port (selectable)

## **Inputs**

- 8 universal inputs

## **Installation**

- LED status indication of each input
- DIN rail mounting
- Removable, non-strip, raising clamp terminals
- Removable see-through panel for easy access to DIP switches

## **Network Communication**

- BACnet® MS/TP or Modbus communication port (selectable via DIP switch)
- Select the MAC address via the DIP switch or via the network

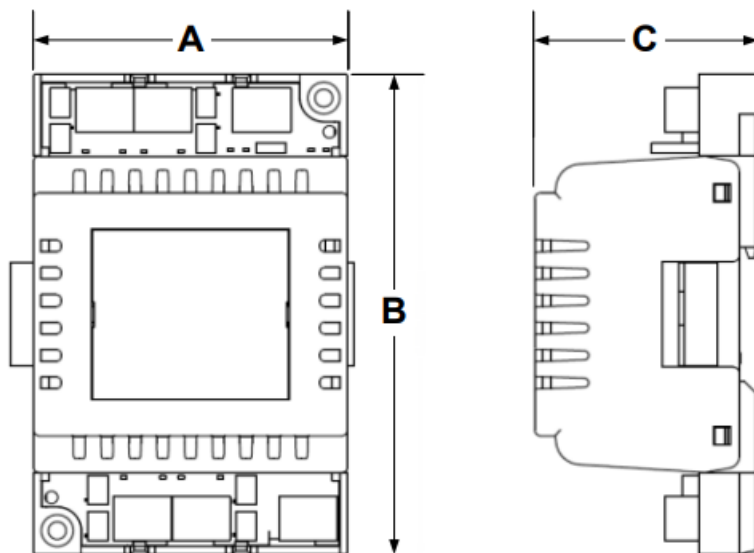
### **BACnet®**

- MS/TP @ 9600, 19200, 38400 or 76800 bps
- Automatic baud rate detection
- Automatic device instance configuration
- Copy & broadcast configuration to other CMMB modules

### **Modbus**

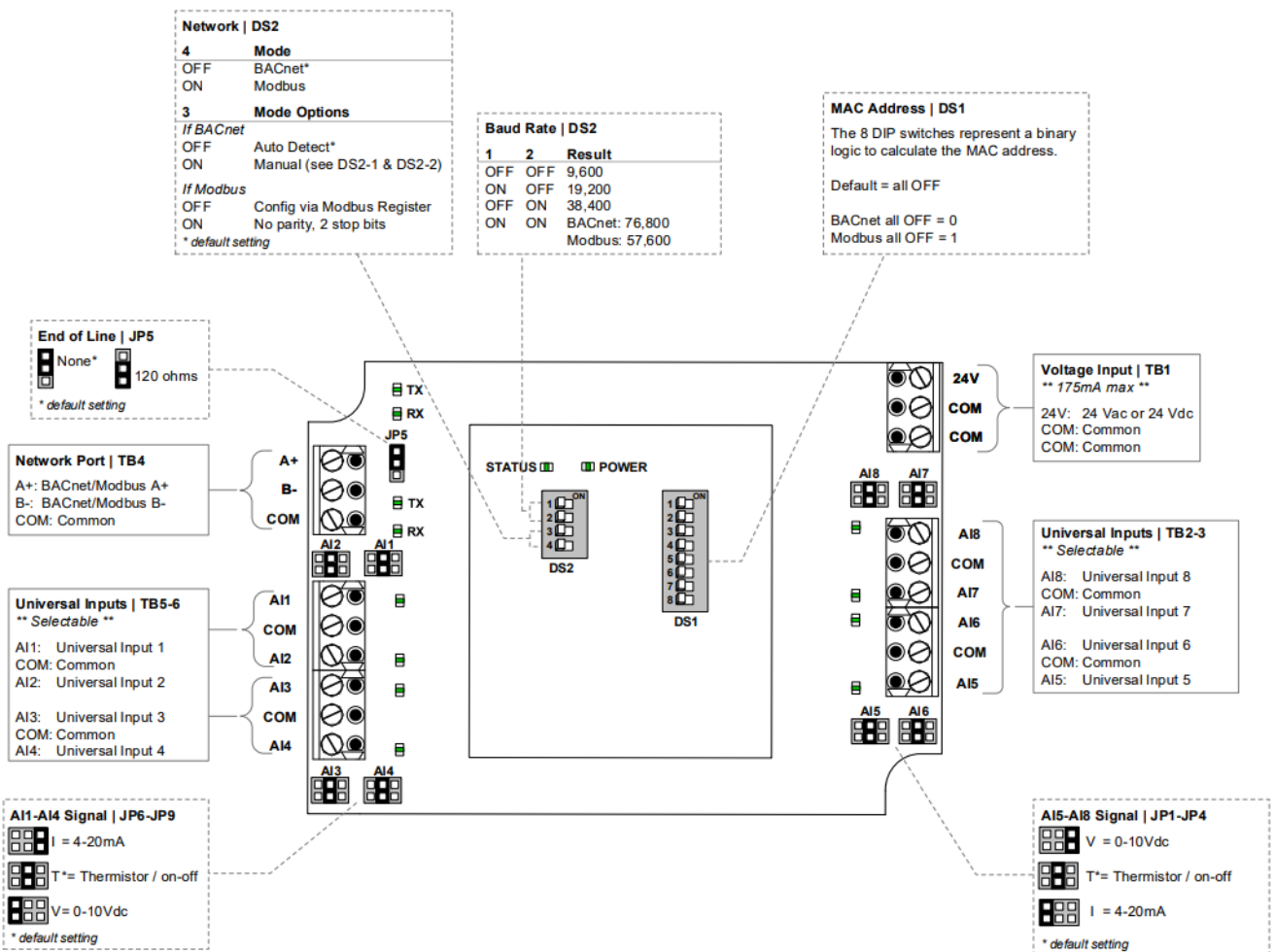
- Modbus @ 9600, 19200, 38400 or 57600 bps
- RTU Slave, 8 bits (configurable parity and stop bits)
- Connects to any Modbus master

## **Technical Specifications**

| Specifications                                                                 | CMMB100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Voltage                                                                  | 24 Vac or 24 Vdc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Consumption                                                                    | 3VA (175mA @ 24 Vac)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Universal Inputs                                                               | 8 [0.00-10.00Vdc, 10KΩ/20KΩ/30KΩ, on/off (dry contact), 4.00-20.00mA] / 12b hardware resolution with oversampling                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| BACnet                                                                         | BACnet® MS/TP @ 9600, 19200, 38400 or 76800 bps (BAS-C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Modbus                                                                         | Modbus RTU slave @ 9600, 19200, 38400 or 57600. Selectable parity and stop bit configuration: <ul style="list-style-type: none"> <li>· No parity, 2 stop bit</li> <li>· Even parity, 1 stop bit</li> <li>· Odd parity, 1 stop bit</li> </ul>                                                                                                                                                                                                                                                                                                                               |
| Communication Connections                                                      | 24 AWG twisted-shield cable (Belden 9841 or equivalent)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Electrical Connections                                                         | 0.8 mm <sup>2</sup> [18 AWG] minimum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Operational Temperature                                                        | 0°C to 50°C [32°F to 122°F]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Storage Temperature                                                            | -30°C to 50°C [-22°F to 122°F]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Relative Humidity                                                              | 5 a 95% non condensed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Weight                                                                         | 0.2 kg [0.4 lb]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Dimensions<br><br>A = 3.18" / 81 mm<br>B = 4.93" / 125 mm<br>C = 2.27" / 58 mm |  <p>The image contains two technical drawings of the CMMB100 device. The left drawing is a front view showing a rectangular unit with a central display screen, multiple rows of ports on the left and right sides, and a circular feature at the top right. Dimension lines indicate width 'A' and height 'B'. The right drawing is a side view showing the profile of the device, including its depth and mounting features. Dimension line 'C' indicates the depth of the unit.</p> |

## Connections and Configurations

Please note that all jumper settings must also be set to the same value through BACnet. Some additional configurations are only available through BACnet (see Network Conditions



## LEDs

## Power

On = Input voltage normal

Off = No power

## Status

Flashing = Normal operation (watchdog)

## RX/TX (BACnet)

Flashing = Receiving (RX) and/or transmitting (TX) data.

## RX/TX (Modbus)

Flashing = Receiving (RX) and/or transmitting (TX) data.

## Input Status

On = Input on

Off = Input off

Flashing = Input not connected (thermistor setting only)

Analog = When Universal Inputs are set to analog values (Vdc, mA, or Thermistor); the LED intensity corresponds to the input value.

**For example:** At 10Vdc, the LED will be fully on. At 5Vdc, the LED will be at 50% intensity. At 0 Vdc, the LED will be off.

#### MAC Address DIP Switch (DS1)

MAC addresses for BACnet and Modbus communication, are selectable by DIP switch DS1 using binary logic.

#### BACnet

- The highest MAC address is 254.
- Default is all switches OFF = MAC address 0
- If you do not change the device instance in program mode, it will be automatically modified according to the MAC address.

| <b>MAC Address</b> | <b>DS.1<br/>= 1</b> | <b>DS.2<br/>= 2</b> | <b>DS.3<br/>= 4</b> | <b>DS.4<br/>= 8</b> | <b>DS.5 =<br/>16</b> | <b>DS.6 =<br/>32</b> | <b>DS.7 =<br/>64</b> | <b>DS.8 = 1<br/>28</b> | <b>Default Device Instance</b> |
|--------------------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|----------------------|------------------------|--------------------------------|
| 0                  | OFF                 | OFF                 | OFF                 | OFF                 | OFF                  | OFF                  | OFF                  | OFF                    | 153000                         |
| 1                  | ON                  | OFF                 | OFF                 | OFF                 | OFF                  | OFF                  | OFF                  | OFF                    | 153001                         |
| 2                  | OFF                 | ON                  | OFF                 | OFF                 | OFF                  | OFF                  | OFF                  | OFF                    | 153002                         |
| 3                  | ON                  | ON                  | OFF                 | OFF                 | OFF                  | OFF                  | OFF                  | OFF                    | 153003                         |
| 4                  | OFF                 | OFF                 | ON                  | OFF                 | OFF                  | OFF                  | OFF                  | OFF                    | 153004                         |
| ...                | ...                 | ...                 | ...                 | ...                 | ...                  | ...                  | ...                  | ...                    | ...                            |
| 126                | OFF                 | ON                  | ON                  | ON                  | ON                   | ON                   | ON                   | OFF                    | 153126                         |
| ...                | ...                 | ...                 | ...                 | ...                 | ...                  | ...                  | ...                  | ...                    | ...                            |
| 254                | OFF                 | ON                  | ON                  | ON                  | ON                   | ON                   | ON                   | ON                     | 153254                         |

#### Modbus

- Highest MAC address is 247.
- Default is all switches OFF = MAC address 1
- MAC address is binary value +1
- There is no device instance for Modbus.

| MAC Address | DS.1 = 1 | DS.2 = 2 | DS.3 = 4 | DS.4 = 8 | DS.5 = 16 | DS.6 = 32 | DS.7 = 64 | DS.8 = 128 |
|-------------|----------|----------|----------|----------|-----------|-----------|-----------|------------|
| 0+1 = 1     | OFF      | OFF      | OFF      | OFF      | OFF       | OFF       | OFF       | OFF        |
| 1+1 = 2     | ON       | OFF      | OFF      | OFF      | OFF       | OFF       | OFF       | OFF        |
| 2+1 = 3     | OFF      | ON       | OFF      | OFF      | OFF       | OFF       | OFF       | OFF        |
| 3+1 = 4     | ON       | ON       | OFF      | OFF      | OFF       | OFF       | OFF       | OFF        |
| 4+1 = 5     | OFF      | OFF      | ON       | OFF      | OFF       | OFF       | OFF       | OFF        |
| ...         | ...      | ...      | ...      | ...      | ...       | ...       | ...       | ...        |
| 126+1 = 127 | OFF      | ON       | ON       | ON       | ON        | ON        | ON        | OFF        |
| ...         | ...      | ...      | ...      | ...      | ...       | ...       | ...       | ...        |
| 246+1 = 247 | OFF      | ON       | ON       | OFF      | ON        | ON        | ON        | ON         |

## Network Conditions

Please note that all jumper settings must also be set to the same value through BACnet or Modbus. The following is a list of conditions and additional BACnet or Modbus objects.

### Universal Inputs (AI1-AI8)

- For temperature thermistor reading: with the jumper set to Thermistor, set the AI input type to 10K\_TypeG, 10K\_Type3A1, 10K\_Type4A1, 10K\_NTC, 20K\_Type6A1 or 30K\_Type6A1.
- For on/off contact input reading: with the hardware jumper set to Thermistor, set the AI input type to Digital\_Input. The polarity can also be set to direct or reverse. For example, in Reverse an “on” signal would be recognized as an “off” signal.
- For analog 0-10 Vdc input reading: with the hardware jumper set to 0-10 Vdc, set the AI input type to 0\_10V.

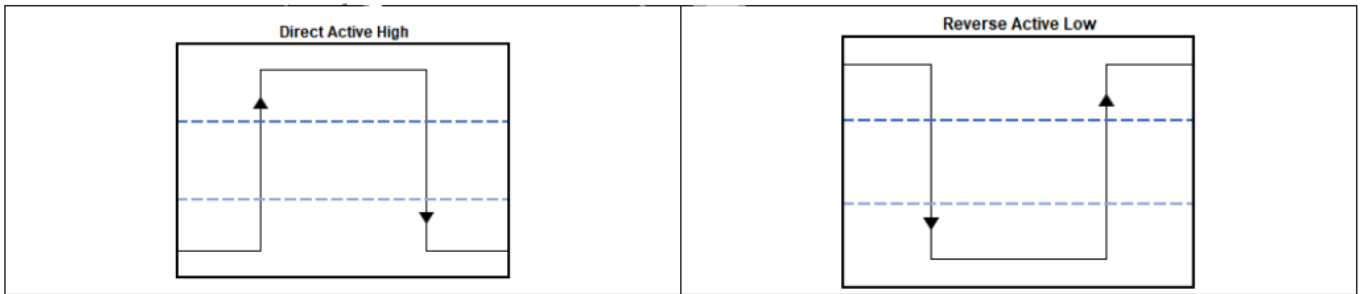
### Pulse Counting Feature

The pulse counting feature enables counting the number of pulses detected by the inputs.

- When an active edge is detected, the Pulse Count is incremented by 1 up to the Prescaler value. When the Prescaler value is reached, the Accumulator is incremented by 1 and the Pulse Count is reset to 0.
- A value that is higher than 80% of the input’s saturation confirms a high level. A value that is lower than 20% of the input’s saturation confirms a low level.



- The maximum frequency is 100Hz and the minimum pulse length is 5ms/50%D.C



**BACnet Objects Table**

| ID <sup>1</sup> | Name            | Description                                  | Writable?          | Notes (* = default)<br>(† = only when <i>UniversalInputxF</i><br><i>unction</i> is set to <i>10K_Type3/G</i> )                                         |
|-----------------|-----------------|----------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| AI.1            | UniversalInput1 | Universal input 1<br>mode selected by MSV.1  | Out of serv<br>ice | 0 to 10Volt or -40 to 100°C<br>(150°C)† or<br>-40 to 212°F (302°F)† or 4 to 20m<br>A or 0 to 1 Resolution: 0.01Volt or<br>0.01°C/0.02°F or 0.01mA or 1 |
| AI.2            | UniversalInput2 | Universal input 2<br>mode selected by MSV.12 | Out of serv<br>ice | 0 to 10Volt or -40 to 100°C<br>(150°C)† or<br>-40 to 212°F (302°F)† or 4 to 20m<br>A or 0 to 1 Resolution: 0.01Volt or<br>0.01°C/0.02°F or 0.01mA or 1 |
| AI.3            | UniversalInput3 | Universal input 3<br>mode selected by MSV.15 | Out of serv<br>ice | 0 to 10Volt or -40 to 100°C<br>(150°C)† or<br>-40 to 212°F (302°F)† or 4 to 20m<br>A or 0 to 1 Resolution: 0.01Volt or<br>0.01°C/0.02°F or 0.01mA or 1 |
| AI.4            | UniversalInput4 | Universal input 4<br>mode selected by MSV.48 | Out of serv<br>ice | 0 to 10Volt or -40 to 100°C<br>(150°C)† or<br>-40 to 212°F (302°F)† or 4 to 20m<br>A or 0 to 1 Resolution: 0.01Volt or<br>0.01°C/0.02°F or 0.01mA or 1 |
| AI.5            | UniversalInput5 | Universal input 5<br>mode selected by MSV.57 | Out of serv<br>ice | 0 to 10Volt or -40 to 100°C<br>(150°C)† or<br>-40 to 212°F (302°F)† or 4 to 20m<br>A or 0 to 1 Resolution: 0.01Volt or<br>0.01°C/0.02°F or 0.01mA or 1 |

|              |                 |                                              |                |                                                                                                                                                                      |
|--------------|-----------------|----------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AI.6</b>  | UniversalInput6 | Universal input 6<br>mode selected by MSV.58 | Out of service | 0 to 10Volt or -40 to 100°C (150°C) <sup>†</sup> or<br>-40 to 212°F (302°F) <sup>†</sup> or 4 to 20mA or 0 to 1 Resolution: 0.01Volt or 0.01°C/0.02°F or 0.01mA or 1 |
| <b>AI.7</b>  | UniversalInput7 | Universal input 7<br>mode selected by MSV.59 | Out of service | 0 to 10Volt or -40 to 100°C (150°C) <sup>†</sup> or<br>-40 to 212°F (302°F) <sup>†</sup> or 4 to 20mA or 0 to 1 Resolution: 0.01Volt or 0.01°C/0.02°F or 0.01mA or 1 |
| <b>AI.8</b>  | UniversalInput8 | Universal input 8<br>mode selected by MSV.60 | Out of service | 0 to 10Volt or -40 to 100°C (150°C) <sup>†</sup> or<br>-40 to 212°F (302°F) <sup>†</sup> or 4 to 20mA or 0 to 1 Resolution: 0.01Volt or 0.01°C/0.02°F or 0.01mA or 1 |
| <b>AV.1</b>  | UI1PulseCount   | Universal input 1 pulse count.               | Present Value  | 0 to 16777216, Resolution: 1                                                                                                                                         |
| <b>AV.2</b>  | UI2PulseCount   | Universal input 2 pulse count.               | Present Value  | 0 to 16777216, Resolution: 1                                                                                                                                         |
| <b>AV.3</b>  | UI3PulseCount   | Universal input 3 pulse count.               | Present Value  | 0 to 16777216, Resolution: 1                                                                                                                                         |
| <b>AV.4</b>  | UI4PulseCount   | Universal input 4 pulse count.               | Present Value  | 0 to 16777216, Resolution: 1                                                                                                                                         |
| <b>AV.5</b>  | UI5PulseCount   | Universal input 5 pulse count.               | Present Value  | 0 to 16777216, Resolution: 1                                                                                                                                         |
| <b>AV.6</b>  | UI6PulseCount   | Universal input 6 pulse count.               | Present Value  | 0 to 16777216, Resolution: 1                                                                                                                                         |
| <b>AV.7</b>  | UI7PulseCount   | Universal input 7 pulse count.               | Present Value  | 0 to 16777216, Resolution: 1                                                                                                                                         |
| <b>AV.8</b>  | UI8PulseCount   | Universal input 8 pulse count.               | Present Value  | 0 to 16777216, Resolution: 1                                                                                                                                         |
| <b>AV.11</b> | UI1Accumulator  | Universal input 1 pulse counter rollovers.   | Present Value  | 0 to 16777216, Resolution: 1                                                                                                                                         |
| <b>AV.12</b> | UI2Accumulator  | Universal input 2 pulse counter rollovers.   | Present Value  | 0 to 16777216, Resolution: 1                                                                                                                                         |
| <b>AV.13</b> | UI3Accumulator  | Universal input 3 pulse counter rollovers.   | Present Value  | 0 to 16777216, Resolution: 1                                                                                                                                         |
| <b>AV.14</b> | UI4Accumulator  | Universal input 4 pulse counter rollovers.   | Present Value  | 0 to 16777216, Resolution: 1                                                                                                                                         |
| <b>AV.15</b> | UI5Accumulator  | Universal input 5 pulse counter rollovers.   | Present Value  | 0 to 16777216, Resolution: 1                                                                                                                                         |

|               |                       |                                            |               |                                                                           |
|---------------|-----------------------|--------------------------------------------|---------------|---------------------------------------------------------------------------|
| <b>AV.16</b>  | UI6Accumulator        | Universal input 6 pulse counter rollovers. | Present Value | 0 to 16777216, Resolution: 1                                              |
| <b>AV.17</b>  | UI7Accumulator        | Universal input 7 pulse counter rollovers. | Present Value | 0 to 16777216, Resolution: 1                                              |
| <b>AV.18</b>  | UI8Accumulator        | Universal input 8 pulse counter rollovers. | Present Value | 0 to 16777216, Resolution: 1                                              |
| <b>AV.226</b> | UniversalInput1Offset | Universal input 1 offset                   | Present Value | -5.00 to 5.00 °C/°F/Volt/mA (default 0*)<br>Resolution: 0.1 °C/°F/Volt/mA |
| <b>AV.227</b> | UniversalInput2Offset | Universal input 2 offset                   | Present Value | -5.00 to 5.00 °C/°F/Volt/mA (default 0*)<br>Resolution: 0.1 °C/°F/Volt/mA |

1 ID is equal to ObjectType.Instance

| <b>ID<sup>1</sup></b> | <b>Name</b>           | <b>Description</b>       | <b>Writable?</b> | <b>Notes (* = default)<br/>(† = only when <i>UniversalInputxF</i><br/><i>unction</i> is set to <i>10K_Type3/G</i>)</b> |
|-----------------------|-----------------------|--------------------------|------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>AV.228</b>         | UniversalInput3Offset | Universal input 3 offset | Present Value    | -5.00 to 5.00 °C/°F/Volt/mA (default 0*)<br>Resolution: 0.1 °C/°F/Volt/mA                                              |
| <b>AV.229</b>         | UniversalInput4Offset | Universal input 4 offset | Present Value    | -5.00 to 5.00 °C/°F/Volt/mA (default 0*)<br>Resolution: 0.1 °C/°F/Volt/mA                                              |
| <b>AV.230</b>         | UniversalInput5Offset | Universal input 5 offset | Present Value    | -5.00 to 5.00 °C/°F/Volt/mA (default 0*)<br>Resolution: 0.1 °C/°F/Volt/mA                                              |
| <b>AV.231</b>         | UniversalInput6Offset | Universal input 6 offset | Present Value    | -5.00 to 5.00 °C/°F/Volt/mA (default 0*)<br>Resolution: 0.1 °C/°F/Volt/mA                                              |
| <b>AV.232</b>         | UniversalInput7Offset | Universal input 7 offset | Present Value    | -5.00 to 5.00 °C/°F/Volt/mA (default 0*)<br>Resolution: 0.1 °C/°F/Volt/mA                                              |

|               |                            |                                                               |               |                                                                                                                                                                                                                                                               |
|---------------|----------------------------|---------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AV.233</b> | UniversalInput8Offset      | Universal input 8 offset                                      | Present Value | -5.00 to 5.00 °C/°F/Volt/mA (default 0*)<br>Resolution: 0.1 °C/°F/Volt/mA                                                                                                                                                                                     |
| <b>AV.468</b> | CopyCfgStartAdd            | Copy configuration start address                              | Present Value | 0-254 Address of first CMMB to copy Available only if BV.101 is set to No                                                                                                                                                                                     |
| <b>AV.469</b> | CopyCfgEndAdd              | Copy configuration end address                                | Present Value | AV.468 – (AV.468 + 64)<br>Address of last CMMB to copy Available only if BV.101 is set to No                                                                                                                                                                  |
| <b>AV.470</b> | CopyCfgResult <sup>2</sup> | Copy configuration result                                     | Present Value | AV.468 – AV.469<br>Result of copy is available on Description property and is available only if BV.101 is set to Yes. Results: Succeed, Prog_Error, Type_Error, Model_Error, FW_Error, Mem_Error, Size_Error, Comm_Error, SlaveDevice, InProgress, AllSucceed |
| <b>AV.509</b> | UI1PulsePrescaler          | Universal input 1 pulse counter rollover threshold.           | Present Value | 0 to 16777216, Resolution: 1                                                                                                                                                                                                                                  |
| <b>AV.510</b> | UI2PulsePrescaler          | Universal input 2 pulse counter rollover threshold.           | Present Value | 0 to 16777216, Resolution: 1                                                                                                                                                                                                                                  |
| <b>AV.511</b> | UI3PulsePrescaler          | Universal input 3 pulse counter rollover threshold.           | Present Value | 0 to 16777216, Resolution: 1                                                                                                                                                                                                                                  |
| <b>AV.512</b> | UI4PulsePrescaler          | Universal input 4 pulse counter rollover threshold.           | Present Value | 0 to 16777216, Resolution: 1                                                                                                                                                                                                                                  |
| <b>AV.513</b> | UI5PulsePrescaler          | Universal input 5 pulse counter rollover threshold.           | Present Value | 0 to 16777216, Resolution: 1                                                                                                                                                                                                                                  |
| <b>AV.514</b> | UI6PulsePrescaler          | Universal input 6 pulse counter rollover threshold.           | Present Value | 0 to 16777216, Resolution: 1                                                                                                                                                                                                                                  |
| <b>AV.515</b> | UI7PulsePrescaler          | Universal input 7 pulse counter rollover threshold.           | Present Value | 0 to 16777216, Resolution: 1                                                                                                                                                                                                                                  |
| <b>AV.516</b> | UI8PulsePrescaler          | Universal input 8 pulse counter rollover threshold.           | Present Value | 0 to 16777216, Resolution: 1                                                                                                                                                                                                                                  |
| <b>BV.93</b>  | UI1_DI_Polarity            | Polarity of universal input 1 when used in digital input mode | Present Value | 0= Direct *<br>1= Reverse                                                                                                                                                                                                                                     |
| <b>BV.94</b>  | UI2_DI_Polarity            | Polarity of universal input 2 when used in digital input mode | Present Value | 0= Direct *<br>1= Reverse                                                                                                                                                                                                                                     |

|               |                 |                                                               |               |                                                                          |
|---------------|-----------------|---------------------------------------------------------------|---------------|--------------------------------------------------------------------------|
| <b>BV.95</b>  | UI3_DI_Polarity | Polarity of universal input 3 when used in digital input mode | Present Value | 0= Direct *<br>1= Reverse                                                |
| <b>BV.96</b>  | UI4_DI_Polarity | Polarity of universal input 4 when used in digital input mode | Present Value | 0= Direct *<br>1= Reverse                                                |
| <b>BV.97</b>  | UI5_DI_Polarity | Polarity of universal input 5 when used in digital input mode | Present Value | 0= Direct *<br>1= Reverse                                                |
| <b>BV.98</b>  | UI6_DI_Polarity | Polarity of universal input 6 when used in digital input mode | Present Value | 0= Direct *<br>1= Reverse                                                |
| <b>BV.99</b>  | UI7_DI_Polarity | Polarity of universal input 7 when used in digital input mode | Present Value | 0= Direct *<br>1= Reverse                                                |
| <b>BV.100</b> | UI8_DI_Polarity | Polarity of universal input 8 when used in digital input mode | Present Value | 0= Direct *<br>1= Reverse                                                |
| <b>BV.101</b> | CopyCfgExecute  | Start or stop copy configuration                              | Present Value | 0= No *<br>1= Yes<br>Start copy and give results, must be reset by user. |
| <b>BV.102</b> | SystemUnit      | Select the unit system to use on the device                   | Present Value | 0= Celsius *<br>1= Fahrenheit                                            |

2 Write the address in the present value, result will be available in the description.

### Modbus Registers

- Register address
  - As per the protocol base (base 0); for PLC add 1 to the protocol base.
  - As per holding register (base 40001)
- **Functions :**
  - 03 Read Holding Register
  - 06 Write Single Register
  - 16 Write Multiple Registers
- **Error Codes :**
  - 02 Illegal Data Address
  - 03 Illegal Value
  - 06 Slave Device Busy

- W = Writable register, [blank] = read-only.
- No Real number in Modbus register, use scale to calculate real number. Register = Real number \* Scale => Real number = Register / Scale. Scale could be 1, 10 or 100
- Attention when writing a register that contains a bit string. If bit is writable (conditional or not), the write will always be accepted. If bit is reserved or not writable, the write will be ignored and will keep its actual state.
- Use the READ-MODIFY-WRITE sequence.

### Register address

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- Attention when writing a register that contains a bit string. If bit is writable (conditional or not), the write will always be accepted. If bit is reserved or not writable, the write will be ignored and will keep its actual state.
- Use the READ-MODIFY-WRITE sequence.

| Pro<br>toc<br>ol<br>Ba<br>se | Hol<br>ding<br>Regi<br>ster | Description                                       | Data<br>Type | MSB/LSB          |                                  | Units/Values                                                     | Writ<br>able | Default Valu<br>e |    |
|------------------------------|-----------------------------|---------------------------------------------------|--------------|------------------|----------------------------------|------------------------------------------------------------------|--------------|-------------------|----|
|                              |                             |                                                   |              |                  |                                  |                                                                  |              | MB                | LB |
| 0                            | 4000<br>1                   | MSB = Neptronic<br>Device ID LSB = MAC<br>Address | Unsig<br>ned | 105<br>(69<br>h) | [1..2<br>47]<br>(1h-<br>F7h<br>) | * MAC address is writable if all<br>DIP switches of DS2 are OFF. | W*           | 69h               | 1h |

|   |           |                                                                                                                                                                                                                                                                                                                            |                                 |                                |           |                                                                                           |   |         |         |
|---|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------|-----------|-------------------------------------------------------------------------------------------|---|---------|---------|
| 1 | 4000<br>2 | Device Baud Rate                                                                                                                                                                                                                                                                                                           | Unsig<br>ned S<br>cale 0<br>.01 | [96] [192]<br>[384] [576]<br>] |           | 9,600<br>19,200<br>38,400<br>57,600                                                       |   | 96      |         |
| 2 | 4000<br>3 | COM Port Configurati<br>on<br><br><b>IMPORTANT:</b> The def<br>ault value is “no parity<br>, 2 stop bits”. To chan<br>ge the value, you mus<br>t set DIP switch DS1-<br>3 to OFF. If set to ON,<br>it will always remain a<br>t the default value. Re<br>fer to<br><br><a href="#">Connections and Co<br/>nfigurations</a> | Unsig<br>ned                    | [0..2]                         |           | 0 = no parity, 2 stop bits 1 = ev<br>en parity, 1 stop bit 2 = odd pa<br>rity, 1 stop bit | W | 0       |         |
| 3 | 4000<br>4 | Product Name (chara<br>cters 8 & 7)                                                                                                                                                                                                                                                                                        | 2 x A<br>SCII                   | cha<br>r 8                     | char<br>7 | Valid ASCII character: 32 (20h<br>) – 122 (7ah), Empty = 0                                | W | 43h [C] | 40h [M] |
| 4 | 4000<br>5 | Product Name (chara<br>cters 6 & 5)                                                                                                                                                                                                                                                                                        | 2 x A<br>SCII                   | cha<br>r 6                     | char<br>5 | Valid ASCII character: 32 (20h<br>) – 122 (7ah), Empty = 0                                | W | 40h [M] | 42h [B] |
| 5 | 4000<br>6 | Product Name (chara<br>cters 4 & 3)                                                                                                                                                                                                                                                                                        | 2 x A<br>SCII                   | cha<br>r 4                     | char<br>3 | Valid ASCII character: 32 (20h<br>) – 122 (7ah), Empty = 0                                | W | 31h [1] | 30h [0] |
| 6 | 4000<br>7 | Product Name (chara<br>cters 2 & 1)                                                                                                                                                                                                                                                                                        | 2 x A<br>SCII                   | cha<br>r 2                     | char<br>1 | Valid ASCII character: 32 (20h<br>) – 122 (7ah), Empty = 0                                | W | 36h [6] | 20h [ ] |
| 7 | 4000<br>8 | Firmware Version                                                                                                                                                                                                                                                                                                           | Unsig<br>ned S<br>cale 1<br>00  | 102                            |           | 1.02                                                                                      |   | 102     |         |

| Pro<br>toc<br>ol<br>Ba<br>se | Hold<br>ing<br>Regi<br>ster | Description         | Data<br>Type                   | MSB/LSB | Units/Values | Writ<br>able | Default Value |    |
|------------------------------|-----------------------------|---------------------|--------------------------------|---------|--------------|--------------|---------------|----|
|                              |                             |                     |                                |         |              |              | MB            | LB |
| 8                            | 40009                       | Application Version | Unsig<br>ned S<br>cale 1<br>00 | 100     | 1.00         |              | 100           |    |

|          |                           |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                                                                   |   |                            |
|----------|---------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------|---|----------------------------|
| 9        | 4001<br>0                 | System Status 1            | Bit String                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | [B0..B15] | 0 = Normal<br>1 = Fault<br><br>-----<br>---<br><br>B0 = System operation                                                          |   | 0000, 0001,<br>1111, 1110b |
| 10       | 4001<br>1                 | System Status 2            | Bit String                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | [B0..B15] | Always 0                                                                                                                          |   | 0000, 0000,<br>0000, 0000b |
| 11       | 4001<br>2                 | Analog Input 1             | 0-10V: Type: Unsigned, Scale:100, Unit: Volt, Range: 0.00-10.00V,<br><br>Resolution: 0.01 4-20mA: Type: Unsigned, Scale:100, Unit: mA, Range: 4.00-20.00 mA, Resolution: 0.01 10K Type 3AI, 10K Type 4AI, 10K Type 2, 20K Type 6AI, 30K Type 6AI:<br><br>Type: Signed, Scale:100, Unit: °C, Range: -40.00 – 100.00 °C, Resolution: 0.01 Type: Signed, Scale:100, Unit: °F, Range: -40.00 – 212.00 °F, Resolution: 0.02<br><br>10K Type 3/G:<br><br>Type: Signed, Scale:100, Unit: °C, Range: -40.00 – 150.00 °C, Resolution: 0.01 Type: Signed, Scale:100, Unit: °F, Range: -40.00 – 302.00 °F, Resolution: 0.02<br><br>DI: Type: Unsigned, Scale:1, No Unit, Range: 0-1, Resolution: 1 |           |                                                                                                                                   |   | 0                          |
| 12       | 4001<br>3                 | Analog Input 2             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                                                                   |   | 0                          |
| 13       | 4001<br>4                 | Analog Input 3             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                                                                   |   | 0                          |
| 14       | 4001<br>5                 | Analog Input 4             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                                                                   |   | 0                          |
| 15       | 4001<br>6                 | Analog Input 5             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                                                                   |   | 0                          |
| 16       | 4001<br>7                 | Analog Input 6             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                                                                   |   | 0                          |
| 17       | 4001<br>8                 | Analog Input 7             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                                                                   |   | 0                          |
| 18       | 4001<br>9                 | Analog Input 8             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                                                                   |   | 0                          |
| 19 to 25 | 4002<br>0 to<br>4002<br>6 | <i>Reserved</i>            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                                                                   |   |                            |
| 26       | 4002<br>7                 | Universal Input 1 Function | Unsigned                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | [1..10]   | 1= 0_10V<br>2= 4_20mA<br>3= 10K_Type3/G *<br>4= 10K_Type3A1<br>5= 10K_Type4A1<br>6= 10K_Type2<br>7= 20K_Type6A1<br>8= 30K_Type6A1 | W | 3                          |
| 27       | 4002<br>8                 | Universal Input 2 Function |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                                                                   |   | 3                          |
| 28       | 4002<br>9                 | Universal Input 3 Function |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                                                                   |   | 3                          |
| 29       | 4003<br>0                 | Universal Input 4 Function |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                                                                   |   | 3                          |
| 30       | 4003<br>1                 | Universal Input 5 Function |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                                                                   |   | 3                          |
| 31       | 4003<br>2                 | Universal Input 6 Function |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                                                                   |   | 3                          |



|    |           |                            |                  |          |                                       |   |   |
|----|-----------|----------------------------|------------------|----------|---------------------------------------|---|---|
| 32 | 4003<br>3 | Universal Input 7 Function |                  |          | 9= Digital_Input<br>10= 10K_NTC_Carel |   | 3 |
| 33 | 4003<br>4 | Universal Input 8 Function |                  |          |                                       |   | 3 |
| 34 | 4003<br>5 | Universal Input 1 Offset   | Signed Scale 100 | [0..100] | Range: +/- 5.00, Resolution: 0.1      | W | 0 |
| 35 | 4003<br>6 | Universal Input 2 Offset   |                  |          |                                       |   | 0 |
| 36 | 4003<br>7 | Universal Input 3 Offset   |                  |          |                                       |   | 0 |
| 37 | 4003<br>8 | Universal Input 4 Offset   |                  |          |                                       |   | 0 |
| 38 | 4003<br>9 | Universal Input 5 Offset   |                  |          |                                       |   | 0 |
| 39 | 4004<br>0 | Universal Input 6 Offset   |                  |          |                                       |   | 0 |

| Protocol Base | Holding Register          | Description              | Data Type        | MSB/LSB  | Units/Values                     | Writable | Default Value |    |
|---------------|---------------------------|--------------------------|------------------|----------|----------------------------------|----------|---------------|----|
|               |                           |                          |                  |          |                                  |          | MB            | LB |
| 40            | 4004<br>1                 | Universal Input 7 Offset | Signed Scale 100 | [0..100] | Range: +/- 5.00, Resolution: 0.1 | W        | 0             |    |
| 41            | 4004<br>2                 | Universal Input 8 Offset |                  |          |                                  |          | 0             |    |
| 42 to 53      | 4004<br>3 to<br>4005<br>4 | <i>Reserved</i>          |                  |          |                                  |          |               |    |

|          |                |                                                   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                            |   |                            |
|----------|----------------|---------------------------------------------------|------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------------------------|
| 54       | 40055          | System Options<br><br>* = digital input mode only | Bit String       | [B0..B15]       | 0 = Direct<br>1 = Reverse<br><br>-----<br>---<br><br><i>B0 to B3 = Reserved</i> B4 = A<br>I1 polarity * B5 = A I2 polarit<br>y * B6 = A I3 polarity * B7 =<br>A I4 polarity * B8 = A I5 pol<br>arity * B9 = A I6 polarity * B1<br>0 = A I7 polarity * B11 = A I8 pol<br>arity * B8 to B14 = Reserved<br><br>-----<br>---<br><br>0 = Celsius<br>1 = Fahrenheit<br><br>-----<br>---<br><br>B15 = System Unit | W | 0000, 0000,<br>0000, 0000b |
| 55 to 56 | 40056 to 40077 | Reserved                                          |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                            |   |                            |
| 77       | 40078          | UI1 Pulse Prescaler (0)                           | Unsigned Scale 1 | [0... 16777216] | Range: 0 to 16777216, Resolution: 1                                                                                                                                                                                                                                                                                                                                                                        | W | 1                          |
| 78       | 40079          | UI1 Pulse Prescaler (1)                           |                  | [0... 16777216] | Range: 0 to 16777216, Resolution: 1                                                                                                                                                                                                                                                                                                                                                                        |   |                            |
| 79       | 40080          | UI2 Pulse Prescaler (0)                           | Unsigned Scale 1 | [0... 16777216] | Range: 0 to 16777216, Resolution: 1                                                                                                                                                                                                                                                                                                                                                                        | W | 1                          |
| 80       | 40081          | UI2 Pulse Prescaler (1)                           |                  | [0... 16777216] | Range: 0 to 16777216, Resolution: 1                                                                                                                                                                                                                                                                                                                                                                        |   |                            |
| 81       | 40082          | UI3 Pulse Prescaler (0)                           | Unsigned Scale 1 | [0... 16777216] | Range: 0 to 16777216, Resolution: 1                                                                                                                                                                                                                                                                                                                                                                        | W | 1                          |
| 82       | 40083          | UI3 Pulse Prescaler (1)                           |                  | [0... 16777216] | Range: 0 to 16777216, Resolution: 1                                                                                                                                                                                                                                                                                                                                                                        |   |                            |
| 83       | 40084          | UI4 Pulse Prescaler (0)                           | Unsigned Scale 1 | [0... 16777216] | Range: 0 to 16777216, Resolution: 1                                                                                                                                                                                                                                                                                                                                                                        | W | 1                          |
| 84       | 40085          | UI4 Pulse Prescaler (1)                           |                  | [0... 16777216] | Range: 0 to 16777216, Resolution: 1                                                                                                                                                                                                                                                                                                                                                                        |   |                            |

|    |       |                         |                  |                |                                     |   |   |
|----|-------|-------------------------|------------------|----------------|-------------------------------------|---|---|
| 85 | 40086 | UI5 Pulse Prescaler (0) | Unsigned Scale 1 | [0...16777216] | Range: 0 to 16777216, Resolution: 1 | W | 1 |
| 86 | 40087 | UI5 Pulse Prescaler (1) |                  | [0...16777216] | Range: 0 to 16777216, Resolution: 1 |   |   |

| Protocol Base | Holding Register | Description             | Data Type        | MSB/LSB        | Units/Values                        | Writable | Default Value |    |
|---------------|------------------|-------------------------|------------------|----------------|-------------------------------------|----------|---------------|----|
|               |                  |                         |                  |                |                                     |          | MB            | LB |
| 87            | 40088            | UI6 Pulse Prescaler (0) | Unsigned Scale 1 | [0...16777216] | Range: 0 to 16777216, Resolution: 1 | W        | 1             |    |
| 88            | 40089            | UI6 Pulse Prescaler (1) |                  | [0...16777216] | Range: 0 to 16777216, Resolution: 1 |          |               |    |
| 89            | 40090            | UI7 Pulse Prescaler (0) | Unsigned Scale 1 | [0...16777216] | Range: 0 to 16777216, Resolution: 1 | W        | 1             |    |
| 90            | 40091            | UI7 Pulse Prescaler (1) |                  | [0...16777216] | Range: 0 to 16777216, Resolution: 1 |          |               |    |
| 91            | 40092            | UI8 Pulse Prescaler (0) | Unsigned Scale 1 | [0...16777216] | Range: 0 to 16777216, Resolution: 1 | W        | 1             |    |
| 92            | 40093            | UI8 Pulse Prescaler (1) |                  | [0...16777216] | Range: 0 to 16777216, Resolution: 1 |          |               |    |
| 93            | 40094            | UI1 Pulse Count (0)     | Unsigned Scale 1 | [0...16777216] | Range: 0 to 16777216, Resolution: 1 | W        | 0             |    |
| 94            | 40095            | UI1 Pulse Count (1)     |                  | [0...16777216] | Range: 0 to 16777216, Resolution: 1 |          |               |    |
| 95            | 40096            | UI2 Pulse Count (0)     | Unsigned Scale 1 | [0...16777216] | Range: 0 to 16777216, Resolution: 1 | W        | 0             |    |
| 96            | 40097            | UI2 Pulse Count (1)     |                  | [0...16777216] | Range: 0 to 16777216, Resolution: 1 |          |               |    |
| 97            | 40098            | UI3 Pulse Count (0)     | Unsigned Scale 1 | [0...16777216] | Range: 0 to 16777216, Resolution: 1 | W        | 0             |    |
| 98            | 40099            | UI3 Pulse Count (1)     |                  | [0...16777216] | Range: 0 to 16777216, Resolution: 1 |          |               |    |

|     |           |                     |                          |                    |                                        |   |   |
|-----|-----------|---------------------|--------------------------|--------------------|----------------------------------------|---|---|
| 99  | 4010<br>0 | UI4 Pulse Count (0) | Unsig<br>ned S<br>cale 1 | [0...<br>16777216] | Range: 0 to 16777216,<br>Resolution: 1 | W | 0 |
| 100 | 4010<br>1 | UI4 Pulse Count (1) |                          | [0...<br>16777216] | Range: 0 to 16777216,<br>Resolution: 1 |   |   |
| 101 | 4010<br>2 | UI5 Pulse Count (0) | Unsig<br>ned S<br>cale 1 | [0...<br>16777216] | Range: 0 to 16777216,<br>Resolution: 1 | W | 0 |
| 102 | 4010<br>3 | UI5 Pulse Count (1) |                          | [0...<br>16777216] | Range: 0 to 16777216,<br>Resolution: 1 |   |   |
| 103 | 4010<br>4 | UI6 Pulse Count (0) | Unsig<br>ned S<br>cale 1 | [0...<br>16777216] | Range: 0 to 16777216,<br>Resolution: 1 | W | 0 |
| 104 | 4010<br>5 | UI6 Pulse Count (1) |                          | [0...<br>16777216] | Range: 0 to 16777216,<br>Resolution: 1 |   |   |
| 105 | 4010<br>6 | UI7 Pulse Count (0) | Unsig<br>ned S<br>cale 1 | [0...<br>16777216] | Range: 0 to 16777216,<br>Resolution: 1 | W | 0 |
| 106 | 4010<br>7 | UI7 Pulse Count (1) |                          | [0...<br>16777216] | Range: 0 to 16777216,<br>Resolution: 1 |   |   |
| 107 | 4010<br>8 | UI8 Pulse Count (0) | Unsig<br>ned S<br>cale 1 | [0...<br>16777216] | Range: 0 to 16777216,<br>Resolution: 1 | W | 0 |
| 108 | 4010<br>9 | UI8 Pulse Count (1) |                          | [0...<br>16777216] | Range: 0 to 16777216,<br>Resolution: 1 |   |   |
| 109 | 4011<br>0 | UI1 Accumulator (0) | Unsig<br>ned S<br>cale 1 | [0...<br>16777216] | Range: 0 to 16777216,<br>Resolution: 1 | W | 0 |
| 110 | 4011<br>1 | UI1 Accumulator (1) |                          | [0...<br>16777216] | Range: 0 to 16777216,<br>Resolution: 1 |   |   |

| Protocol Base | Holding Register | Description         | Data Type        | MSB/LSB        | Units/Values                        | Writable | Default Value |    |
|---------------|------------------|---------------------|------------------|----------------|-------------------------------------|----------|---------------|----|
|               |                  |                     |                  |                |                                     |          | MB            | LB |
| 111           | 40112            | UI2 Accumulator (0) | Unsigned Scale 1 | [0...16777216] | Range: 0 to 16777216, Resolution: 1 | W        | 0             |    |
| 112           | 40113            | UI2 Accumulator (1) |                  | [0...16777216] | Range: 0 to 16777216, Resolution: 1 |          |               |    |
| 113           | 40114            | UI3 Accumulator (0) | Unsigned Scale 1 | [0...16777216] | Range: 0 to 16777216, Resolution: 1 | W        | 0             |    |
| 114           | 40115            | UI3 Accumulator (1) |                  | [0...16777216] | Range: 0 to 16777216, Resolution: 1 |          |               |    |
| 115           | 40116            | UI4 Accumulator (0) | Unsigned Scale 1 | [0...16777216] | Range: 0 to 16777216, Resolution: 1 | W        | 0             |    |
| 116           | 40117            | UI4 Accumulator (1) |                  | [0...16777216] | Range: 0 to 16777216, Resolution: 1 |          |               |    |
| 117           | 40118            | UI5 Accumulator (0) | Unsigned Scale 1 | [0...16777216] | Range: 0 to 16777216, Resolution: 1 | W        | 0             |    |
| 118           | 40119            | UI5 Accumulator (1) |                  | [0...16777216] | Range: 0 to 16777216, Resolution: 1 |          |               |    |
| 119           | 40120            | UI6 Accumulator (0) | Unsigned Scale 1 | [0...16777216] | Range: 0 to 16777216, Resolution: 1 | W        | 0             |    |
| 120           | 40121            | UI6 Accumulator (1) |                  | [0...16777216] | Range: 0 to 16777216, Resolution: 1 |          |               |    |
| 121           | 40122            | UI7 Accumulator (0) | Unsigned Scale 1 | [0...16777216] | Range: 0 to 16777216, Resolution: 1 | W        | 0             |    |
| 122           | 40123            | UI7 Accumulator (1) |                  | [0...16777216] | Range: 0 to 16777216, Resolution: 1 |          |               |    |
| 123           | 40124            | UI8 Accumulator (0) | Unsigned Scale 1 | [0...16777216] | Range: 0 to 16777216, Resolution: 1 | W        | 0             |    |
| 124           | 40125            | UI8 Accumulator (1) |                  | [0...16777216] | Range: 0 to 16777216, Resolution: 1 |          |               |    |

Recycling at end of life: please return this product to your Neptronic local distributor for recycling. If you need to find the nearest Neptronic authorized distributor, please consult [www.neptronic.com](http://www.neptronic.com).

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Monday to Friday: 8:00 am to 5:00 pm (Eastern time)

## Documents / Resources

|                                                                                   |                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><a href="#">neptronic CMMB100 Dual Mini Input Communication Module</a> [pdf] Instruction Manual CMMB100 Dual Mini Input Communication Module, CMMB100, Dual Mini Input Communication Module, Mini Input Communication Module, Input Communication Module, Communication Module, Module</p> |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## References

-  [Neptronic | Home - Humidifier Distributor & HVAC Products](#)
-  [Neptronic | Home - Humidifier Distributor & HVAC Products](#)
- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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