



### Features and Benefits

- ▶ Flexible I/O Expansion Unit
- ▶ Controller Connectivity through RS-485
- ▶ I/O Points: 8 UI, 6 DO, 8 AO
- ▶ Diagnostic LEDs

### Technical Information

<b>Operating Voltage</b>	24V AC/DC ( $\pm 10\%$ ), 50/60 Hz
<b>Operating Environment</b>	-30 ... 70°C, 0-80% Rh (Non-Condensing)
<b>Max. Power Consumption</b>	2.5W @24V DC (all outputs on)
<b>Communication Interface</b>	RS-485
<b>Universal Inputs</b>	AI: 10k NTC, 4-20mA, 0-5V, 0-10V DI: Potential Free Contact
<b>Digital Outputs</b>	Relay Outputs, 30V AC/DC, 3A
<b>Analog Outputs</b>	0-10 V Max. 100 mA
<b>Dimensions</b>	111 x 137 x 50 mm
<b>Enclosure</b>	UL listed ABS enclosure

### Product Description

#### IO Expansion Unit

The NETIX NCCBX22 I/O Expansion Unit is a flexible extension to NETIX Controllers. The I/O points of the Controller can be easily extended by utilising I/O Expansion Units. Several expansion units can be connected with the same Controller. Typically the Units are located in the same cabinet with the Controller, but they could also be located in a remote location up to several hundreds of meters away if the required.

#### Flexible Selection of I/O

The I/O Expansion Unit allows for flexible use of I/O with universal inputs. The Expansion Unit comes with 8 on-board Universal Inputs, 6 Digital Outputs and 8 Analogue Outputs. The Universal Input allows connecting a thermistor, 0-5V, 0-10V and 0-20mA signals. The mechanical relay of the digital output allows 2A, 24VAC or DC signals.

#### Multiple Communication Protocols

Communication is based on the international ISO 16484-5BACnet® standard. The Unit has one on-board RS-485 port for BACnetMS/TP or Modbus/RTU communication. Dual terminals on the RS-485 port allow for daisy chaining and creation of RS-485 network between multiple devices. The device's Ethernet port supports BACnet/IP and Modbus TCP protocols and can be utilized when device is used as a standalone I/O Unit without Controller connectivity.

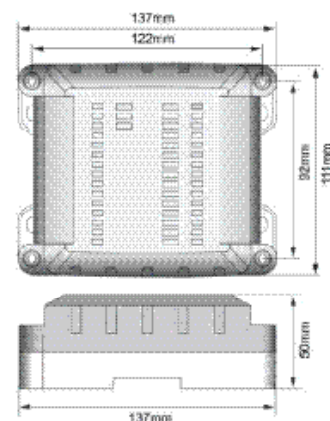
#### Diagnostics LEDs and HOA Override

The I/O Expansion Unit comes with LEDs for all inputs and outputs. The Unit is also equipped with additional diagnostic LEDs (red LED for TX and green LED for RX) for RS-485, Ethernet and communication bus. The Unit indicates the green diagnostic LED for power indication and red LED for fuse state indication. The Unit comes with Hand, Off, Auto override switches for all outputs.

#### Mounting and Wiring

The Unit can be mounted inside cabinet, snapped onto DIN rail or fastened to the inside wall via screw holes provided in housing. The Unit can also be mounted in wiring cabinets. The Unit can be wired with screw terminal blocks attached directly to the housing.

### Dimensions



### Ordering Codes

NCCBX22	Expansion unit with 22 I/O: 8 UI, 6 DO, 8 AO
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# NCCBX22

## Mixed I/O Expansion Unit



### Pinout Drawings



### Possible Configurations

Expansion Module	Quantity	UI (AI/DI)	AO	DO
NCCBX22	22	16	0	6

### Ordering Codes

NCCBX22      Expansion unit with 22 I/O: 8 UI, 6 DO, 8 AO