

# NCCBX22IN

## Universal Input Expansion Unit



### Product Description

#### I/O Expansion Unit

The NETIX NCCBX22IN I/O Expansion Unit is the flexible extension to NETIX Controllers. It allows for flexible use of I/O with universal inputs. The Expansion Unit comes with 22 On Board Expansion Inputs. The Universal Input allow connecting a thermistor, 05V, 0-10V and 0-20mA signals.

Several expansion units can be connected with the same Controller. Typically the Units are located in the same cabinet with the Controller, but they can also be located in remote location up to several hundreds of meters away if the application requires it.

#### Multiple Communication Protocols

Communication is based on the international ISO 16484-5 BACnet® standard. The Unit has one on-board RS-485 port for BACnet MS/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 stand alone I/O Unit without Controller connectivity.

#### Diagnostics LEDs

The I/O Expansion Unit comes with LEDs for all inputs. 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.

#### Mounting & Wiring

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

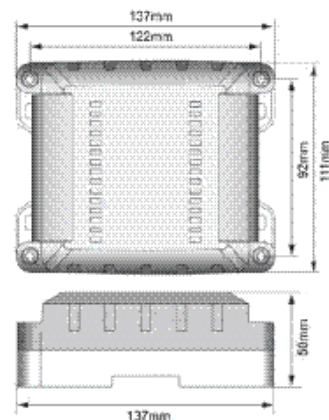
### Features and Benefits

- ▶ Flexible Input Expansion Unit
- ▶ Connectivity to Controller through RS-485
- ▶ I/O Points: 22 UI
- ▶ 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
<b>Communication Interface</b>	RS-485 (BACnet MS/TP on Modbus/RTU)
<b>Universal Inputs</b>	10k NTC, 4-20mA, 0-5V, 0-10V DI: Potential Free Contact
<b>Dimensions</b>	111 x 137 x 50 mm
<b>Enclosure</b>	UL listed ABS enclosure

### Dimensions



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### Pinout Drawings

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
POWER	RESERVED	DI	DI	DI	DI	DI	DI	DI	DI	DI	DI	DI	DI	DI	DI	DI	DI	DI	DI	DI	DI
NETIX NCCBX22IN																					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22

### Possible Configurations

Expansion Module	Quantity	UI (AI/DI)	AO	DO
NCCBX22IN	0	22	0	0

### Ordering Codes

NCCBX22IN      Expansion unit with 22 UI