NCCBC26

Universal Controller

Product Description

For Multiple Applications
The NETIX NCCBC26 Controller is a modular controller for basic HVAC controls. Supporting multiple communication protocols, NCCBC26 is equipped with real time clock and internal schedules to maximise energy savings of the buildings.

Wide Selection of I/O
The NCCBC26 Controller allows for flexible use of I/O with universal inputs and comes with16 on board Universal Inputs, 6Digital Outputs and 4 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. The Controller also supports pulse inputs and the I/O count can be easily extended with I/O Expansion Units (NCCBX22, NCCBX22IN).

Multiple Communication Protocols
Communication is based on the international ISO 16484-5BACnet® standard and the Controller has two on-board RS-485 channels for BACnet MS/TP or Modbus communication. The main RS-485 port can operate with baud rate of 1200~921600.The subport supports baud rates of 9600 or19200.

Diagnostic LEDs and HOQ Overide
The Controller comes with colour LEDs for all inputs and outputs.The Controller is also equipped with additional diagnostic LEDs (red LEDfor TX and green LED forRX)for RS-485, Ethernet and communication bus.The Controller indicates the green diagnostic LED for power indication and red LED for fuse state indication. The Controller comes withHand, Off, Auto override switches for all outputs.

Expandable architecture
The I/O points of the Controller can be further extended by utilising the I/O ExpansionUnits. Any combination of I/O Expansion Units totalling up to 64 points of each I/O type can be added. The IO expansion unit communicates with the main controller over ModBus over an RS-485 protocol

The memory of the Controller can be expanded with micro SDcards.Trend and Alarm data can be stored in the micro SDcard.

Mounting & Wiring
The Controller can be mounted inside the cabinet, snapped on to the DIN rail or fastened to inside wall via screw holes provided within the housing. The Controller can also be mounted in the wiring cabinets. The Controller can be wired with screw terminal blocks attached directly at the housing.

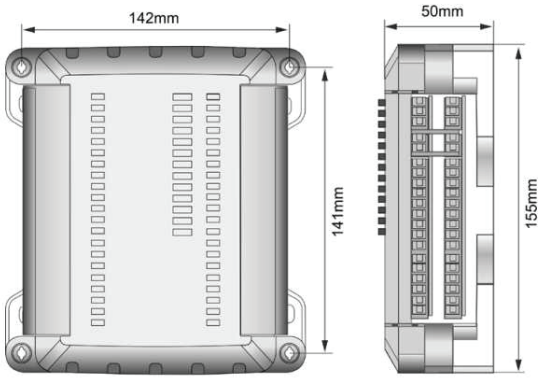
Features and Benefits

- Freely Programmable Controller
- Connectivity through BACnet/IP
- 16 PID Controllers
- Flexible I/O Points: 16 UI, 4 AO, 6 DO
- Diagnostic LEDs
- HOA Override Switches for DO/A

Technical Information

Operating Voltage	24V AC/DC (±20%), 50/60 Hz
Operating Environment	-30°C ... 70°C, 0-80% Rh (Non-Condensing)
Max. Power Consumption	10W @24V DC (all outputs on)
Communication Interface	IP : BACnet/IP Main Node/Master : BACnet MS/TP, Modbus RTU Sub Node/Slave : Modbus RTU
Memory	512KB Flash / 512KB RAM , Expandable with SD Card
Universal Inputs	I: 10k NTC, 4-20mA, 0-5V, 0-10V DI: Potential Free Contact
Digital Outputs	Relay Outputs, 30V AC/DC 5A
Analog Outputs	0-10 VDC Max. 100 mA
Dimensions (mm)	155 x 156 x 50
Enclosure	UL listed ABS enclosure

Dimension



For further information
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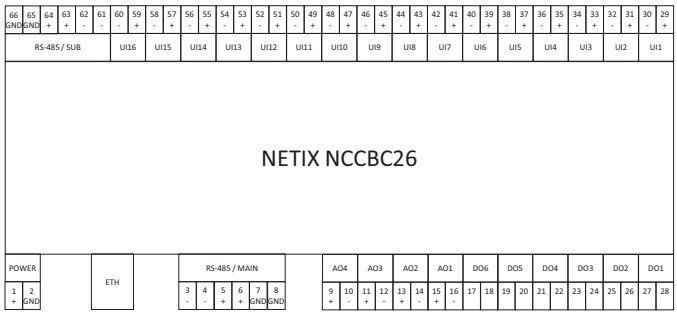
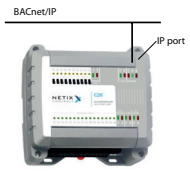
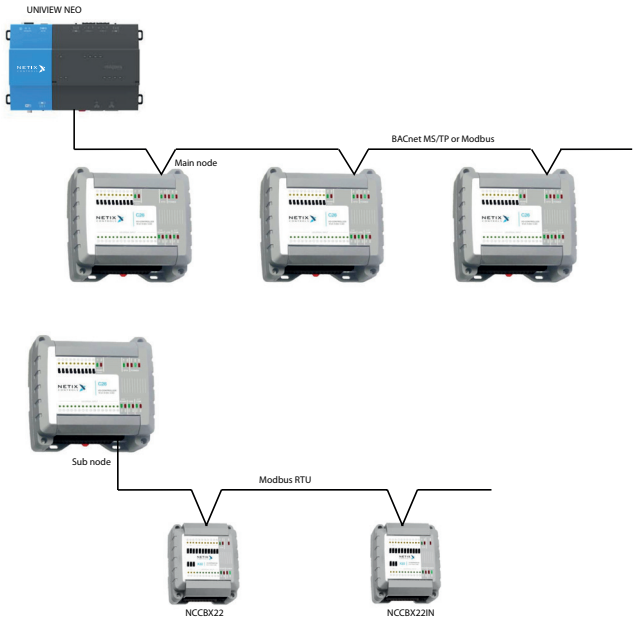
Pinout Drawings



Expandable Architecture





Possible Configurations

BACnet Controller	Qantity	UI (AI/DI)	AO	DO
NCCBC26	1	16	4	6
Expansion Module				
NCCBX22IN	0	0	0	0
NCCBX22	6	48	48	36

BACnet Controller	Qantity	UI (AI/DI)	AO	DO
NCCBC26	1	16	4	6
Expansion Module				
NCCBX22IN	1	22	0	0
NCCBX22	3	24	24	18

BACnet Controller	Qantity	UI (AI/DI)	AO	DO
NCCBC26	1	16	4	6
Expansion Module				
NCCBX22IN	2	44	0	0
NCCBX22	0	0	0	0

Ordering Codes

NCCBC26	BACnet controller with 26 I/O: 16 UI, 8 DO, 4 AO

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