



Features & Benefits

- ▶ Freely Programmable Controller
- ▶ Connectivity through BACnet/IP
- ▶ 16 PID Controllers
- ▶ LCD Display
- ▶ Flexible I/O Points: 32 UI, 12 AO, 12 DO
- ▶ Diagnostic LEDs
- ▶ HOA Override Switches for DO/AO
- ▶ SD Card Slot for Memory Expansion

Technical Information

Operating Voltage	24V AC/DC ($\pm 20\%$), 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	AI: 10k NTC, 4-20mA, 0-5V, 0-10V DI: Potential Free Contact
Digital Outputs	Relay Outputs, 30V AC/DC, 3A
Analog Outputs	0-10 VDC Max. 100 mA
Dimensions	246 x 156 x 50 mm
Enclosure	UL listed ABS enclosure

Product Description

For Multiple Applications

The NETIX NCCBC56 Controller, applies the latest technologies and modern design, ensures advanced controls and versatile functionality in complex control systems in a robust single-piece design. The Controller is perfectly suited for all types of sophisticated controls, such as HVAC systems and other process controls.

Wide Selection of I/O

The NCCBC56 Controller allows for flexible use of I/O with universal inputs. The Controller comes with 32 on board Universal Inputs, 12 Digital Outputs and 12 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, 24V AC or DC signals. The Controller also supports pulse inputs. 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 16484-5 BACnet® standard. In addition, the Controller has two on-board RS-485 channels for BACnet MS/TP or Modbus communication. The Zigbee slot is optional and can connect wirelessly to the network. The main RS-485 port can operate with baud rate of 1200~921600. The sub port supports baud rates of 9600 or 19200.

Diagnostic LEDs and HOQ Override

The Controller comes with colour LEDs for all inputs and outputs and is equipped with additional diagnostic LEDs (Red LED for TX and Green LED for RX) for RS-485, Ethernet and communication bus. The Controller indicates the green diagnostic LED for power indication and red LED for fuse state indication and comes with Hand, 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 Expansion Units. Any combination of I/O Expansion Units totalling up to 64 points of each I/O type can be added (for more details, refer the table). The expansion units communicate to the main controllers over ModBus RTU Protocol. The memory of the Controller can be expanded with microSD cards. Trend and Alarm data can be stored in the microSD card.

Mounting & Wiring

The controller can be mounted inside the cabinet, snapped onto DIN rail or fastened to inside wall via screw holes provided in the housing. The controller can be mounted within the cabinets and can be wired with screw terminals blocks attached directly to the housing.

Dimensions



