

MODEL	SENSORS		
	TEMPERATURE	CO ₂	HUMIDITY
CP-VAV-DISP-B/W*	•		
CP-VAV-C-DISP-B/W*	•	•	
CP-VAV-H-DISP-B/W*	•		•
CP-VAV-HC-DISP-B/W*	•	•	•

*B/W: all panels are available in black or white, which is reflected in the last letter of the product code, e.g., CP-VAV-H-DISP-B or CP-VAV-C-DISP-W.



APPLICATION AND USE

Control Point VAV is a wall panel with a 2.6" LCD display and four buttons for navigation and temperature setpoint. The panel has a built-in temperature sensor and, optionally, humidity and/or CO₂ sensors. The Control Point VAV panel is powered with 24 V AC/DC and has a built-in RS485 port (Modbus RTU/ASCII, BACnet MS/TP). The use of open communication protocols allows to connect the panel with any controller supporting Modbus RTU/ASCII or BACnet MS/TP. Together with the Comfort Management zone controllers, the panel allows to adjust basic parameters such as a temperature setpoint, fan speed, FCU mode, and others. Thanks to a built-in USB port, there is a possibility to configure the panel without a power supply. The Control Point VAV panel has a modern design and is available in two colors, black and white.

FEATURES

- Modern and smart design
 - Intuitive management
 - Multiprotocol RS485 interface - Modbus RTU/ASCII and BACnet MS/TP
 - Plug and play connection with iSMA CONTROLLI zone controllers
 - Easy integration in Niagara and Sedona Framework
 - Easy on/off configuration of selected parameters such as screen, keypad, sensors, and more
 - Setting user-defined parameters to control lighting, blinds, alarms and more
 - Advanced configuration of Setpoint, Fan, and Occupancy control
 - Optional, password-protected submenus
- 2.6" LCD backlight display with support for Celcius and Fahrenheit units
 - 0-100% backlight configuration of LCD and keypad in idle/standby/active modes
 - Displaying custom values from the BMS using one of the 21 icons and 9 units
 - Temperature sensor as a standard, humidity and CO₂ sensors as an option
 - DIP switches for configuration
 - Configurable on/off buzzer
 - Local or remote configuration of device settings
 - Daisy-chain connection of multiple panels with Smart-Plug
 - Supported junction boxes: EU single 65 mm, UK single 65 mm, US single vertical 2x4
 - Free-of-charge software: iSMA Configurator

TECHNICAL CHARACTERISTICS

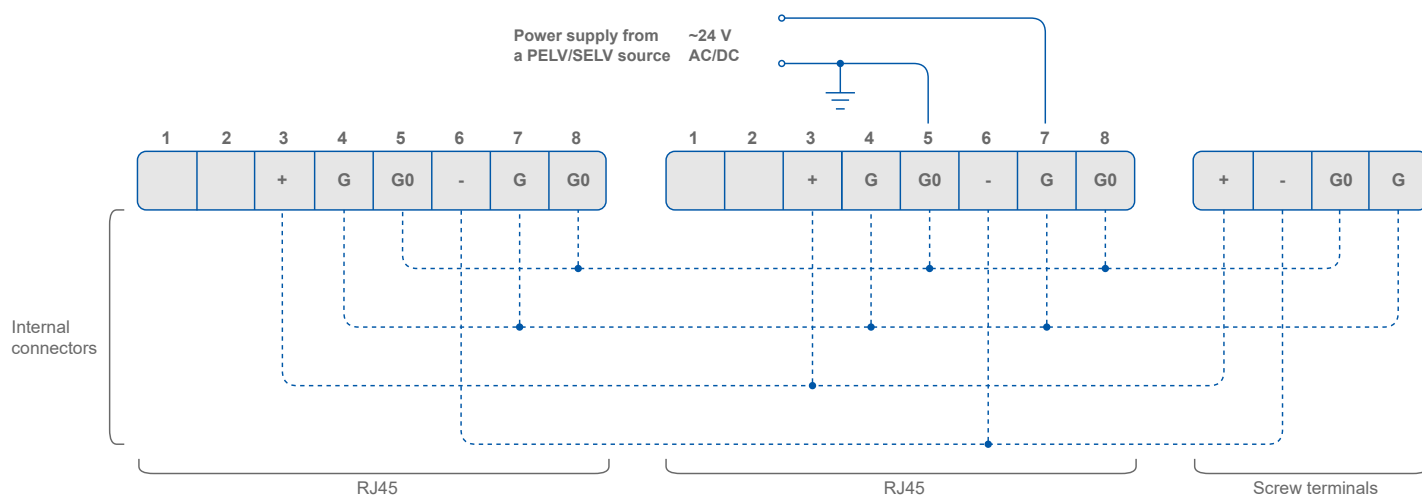
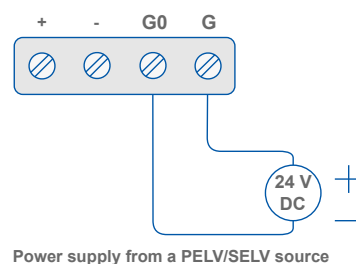
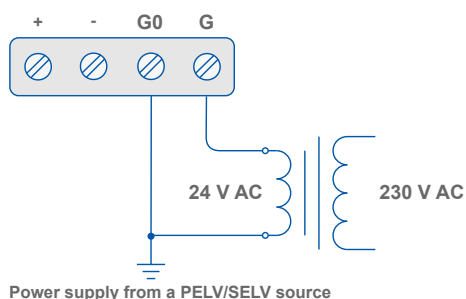
DESCRIPTION		CONTROL POINT VAV
Power supply	Voltage	20-34 V DC
		24 V AC ± 20%
	Power consumption	0.6 W at 24 V DC, 1.8 VA at 24 V AC - panels without CO ₂ sensor 0.9 W at 24 V DC, 2.5 VA at 24 V AC - panels with CO ₂ sensor
Built-in sensors	Temperature sensor	10k NTC type, range: 0-50 °C (32-122 °F), accuracy: ± 0.5 °C (0.5 °F), resolution: ± 0.1 °C (0.1 °F)
	Humidity sensor (applies to version with humidity sensor)	Range: 0-100% RH, accuracy: ± 2% RH in range 10-90% RH, resolution: ± 1% RH
	CO ₂ sensor (applies to version with CO ₂ sensor)	Range: 400-2000 ppm, accuracy: 50 ppm + 5% of reading

The performances stated in this sheet can be modified without any prior notice.

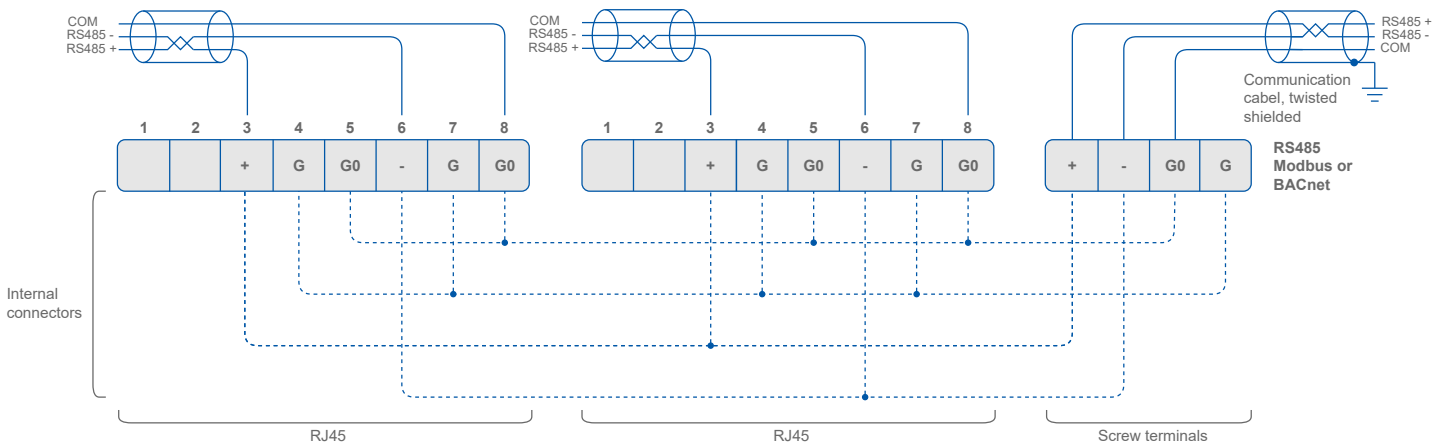
DESCRIPTION		CONTROL POINT VAV
COM1	RS485 interface	Up to 128 devices
		Half- duplex
	Communication protocols	Modbus RTU/ASCII, BACnet MS/TP
	Ports	2 smart plug over RJ45 + screw connector
	Baud rate	2400-115200
USB1	Type	USB type C
	Power supply	5 V DC
Front panel	Display	LCD 2.6"
	Buttons	4 buttons (up +, down -, menu, confirmation)
Ingress protection	IP rating	IP20 for indoor installation
Temperature	Operating	From 0°C to +50°C (32°F to 122°F)
	Storage	From -40°C to 85°C (-40°F to 185°F)
Humidity	Relative	From 5% to 95% RH (without condensation)
Screw connector	Type	Removable screw terminals
	Maximum cable size	1.5 mm ² (26...16 AWG)
Housing	Material	UL94-V0 plastic enclosure, self-extinguishing PC/ABS
	Mounting	Flush wall box 60 mm; US 1-gang electrical outlet box
Dimensions	Width	86.30 mm/3.40 in
	Length	129.30 mm/5.10 in
	Height	24.80 mm/0.98 in

WIRING DIAGRAMS

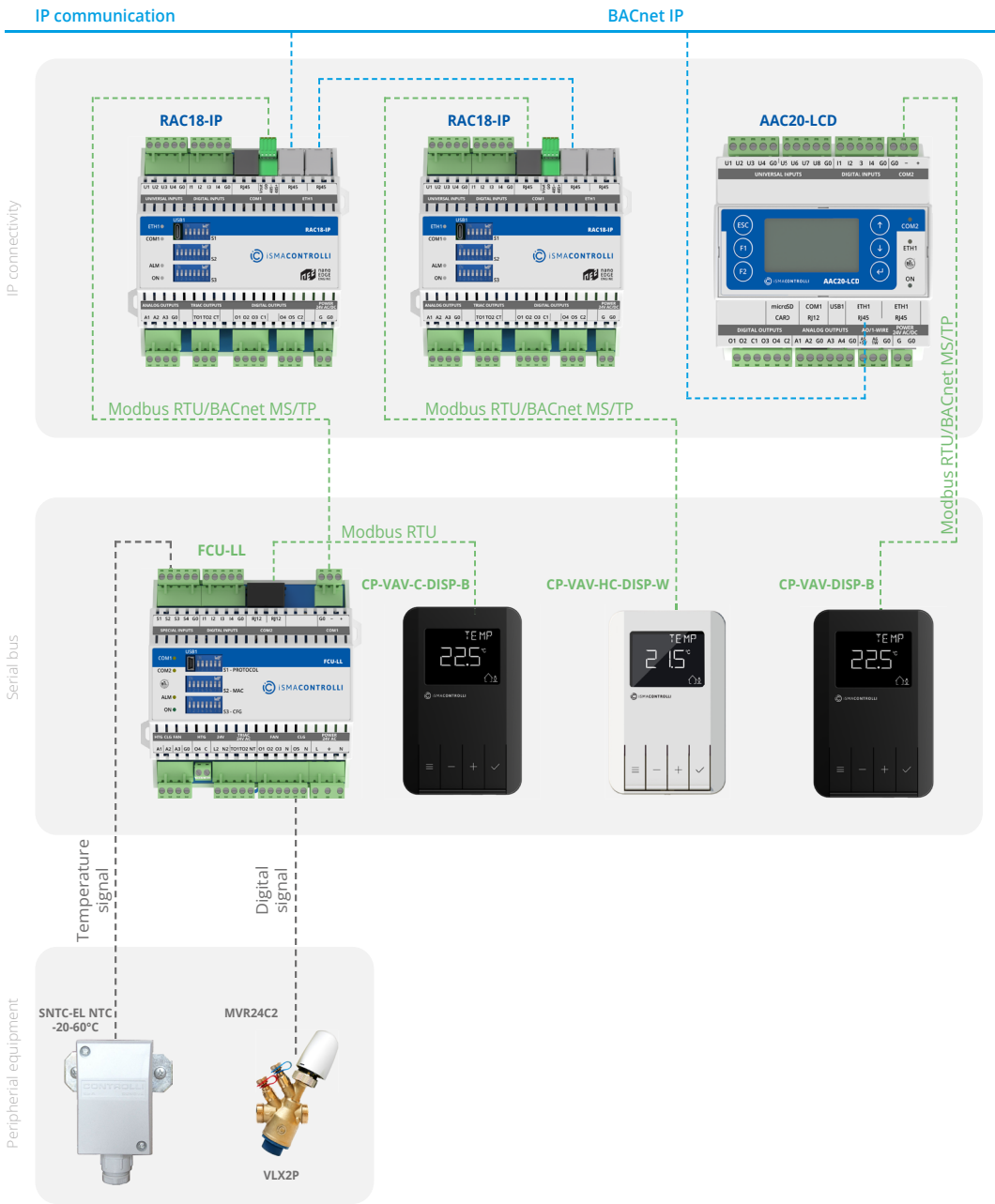
Power Supply



Communication



APPLICATION EXAMPLE





iSMA Configurator - configuration tool for non-programmable iSMA CONTROLLI devices

ACCESSORIES

CONNECTION TO CONTROLLERS:	RJ12-RJ45 CABLES
iSMA-B-FCU-HH iSMA-B-FCU-HL iSMA-B-FCU-LL	iSMA-B-RJ12-RJ45-5: 5 m RJ12-RJ45 cable
	iSMA-B-RJ12-RJ45-10: 10 m RJ12-RJ45 cable
	iSMA-B-RJ12-RJ45-15: 15 m RJ12-RJ45 cable
	iSMA-B-RJ12-RJ45-20: 20 m RJ12-RJ45 cable

DIMENSIONS [mm, in]

