

OPA2-VC

Communicating Operation terminal

Features

- · Display and change of operation state and set points
- Display input values according to real values not voltage signals
- Display and change of configuration parameters
- Integrated temperature sensor (-T)
- Surface mounting

Applications

- Configuration and operation of TCX2 controllers
- Remote supervision (RS485)



General Description

The OPA2-VC is a remote display and operation terminal for TCX2 series controllers.

Ordering

Item Name	Item Code	Passive inputs	Humidity sensor	Description/Option	
OPA2-VC	40-50 0007			Operation terminal for TCX2 controller	
				with internal temperature sensor	

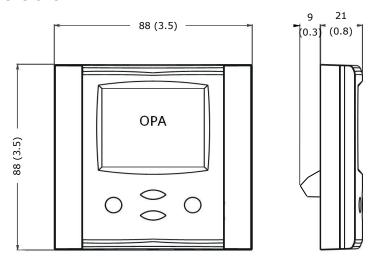
Mounting location

- Install the operation terminal on an easy accessible interior wall, approx. 1.5 m above the floor in an area of average temperature.
- Avoid direct sunlight or other heat sources, e.g. the area above radiators and heat emitting equipment.
- Avoid locations behind doors, outside walls and below or above air discharge grills and diffusers.
- · Location of mounting is less critical if external temperature sensors are used.

Installation

See installation sheet no. 70-000113C (www.vectorcontrols.com).

Dimensions



Important notice and safety advice

This device is for use as operating controls. It is not a safety device! Where a device failure endangers human life and/or property, it is the responsibility of the client, installer and system designer to add additional safety devices to prevent a system failure caused by such a device failure. Ignoring specifications and local regulations may cause equipment damage and endangers life and property. Tampering with the device and misapplication will void warranty.



Technical Specification

Power Supply	Operating voltage	10-30VDC, 10-26V AC		
	Power consumption	Max 0.5 VA		
	Electrical Connection	Terminal Connectors, wire 0.342.5 mm ² (AWG 2412)		
Temperature Input	Туре	NTC 10kΩ @ 25°C (77°F)		
	Range	050 °C (32122 °F)		
	Accuracy	0.2 K		
Communication	Communication Type Protocol	RS485, Peer to peer, VCPP: Vector Controls Proprietary Protocol		
	Cabling Impedance Nominal capacitance Nominal velocity	Shielded Twisted Pair (STP), CAT5 or CAT6. balanced 100 to 120 ohm 50 pF/m 16pF/ft or lower 65% or higher		
Environment	Operation Climatic Conditions Temperature Humidity	To IEC 721-3-3 class 3 K5 050 °C (32122 °F) <95 % r.H. non-condensing		
	Transport & Storage Climatic Conditions Temperature Humidity Mechanical Conditions	To IEC 721-3-2 and IEC 721-3-1 class 3 K3 and class 1 K3 -2570 °C (-13158 °F) <95 % r.H. non-condensing class 2M2		
Standards	Pollution Class Degree of Protection Safety Class	Normal acc. to EN 60 730 IP30 to EN 60 529 III		
General	OPA Dimensions (H x W x D) Housing Material Mounting Plate	88 x 88 x 30 mm (3.5" x 3.5" x 1.1") Fire proof ABS plastic Zinc coated steel		
	Standard Color Weight (including package)	White RAL 9003 185 g (6.5 oz)		

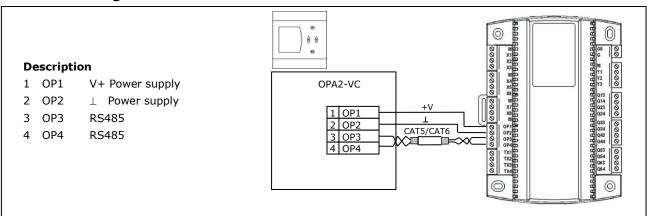
Product testing and certification



Declaration of conformity

Information about the conformity of our products can be found on our website www.vectorcontrols.com on the corresponding product page under "Downloads"

Connection Diagram



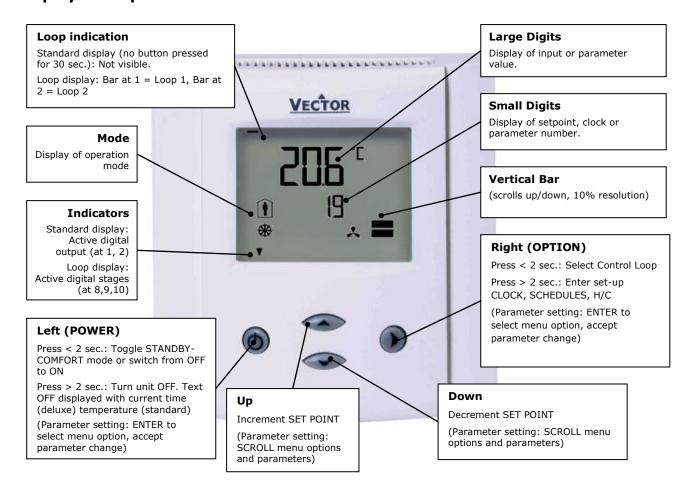
Installation

See installation sheet no:

OPA2-VC 70-000113 (<u>www.vectorcontrols.com</u>)



Display and Operation



Operation modes		Control symbols	
Î	Occupied: (Comfort) All control functions operating per set points.	*	Heating (reverse) active
<u></u>	Unoccupied: (Standby, Economy) If enabled, alternative setpoints are used with the intention to reduce energy consumption.	*	Cooling (direct) active
OFF	OFF: (Energy Hold Off, EHO) Normal control functions are inactive, inputs are monitored for alarms.	0	Schedule set
		•	Manual override, delay on enable function
		*	Fan active

Idle display

- The idle display is activated when no key has been pressed for 30 seconds.
- The contents of the idle display are selectable through parameters UP08 to UP14.
- Setting UP08 to OFF will disable idle display. Last active control loop or manual output will remain displayed.

Display of control loop

• Active when changing set points. Large digits show input value. Small digits show set point. Horizontal bars top left show which loop is being displayed.

Operation manual

This operation terminal works with the latest generation X2 control devices. Detailed operating instructions for all devices equipped with this operating system can be downloaded here:

http://www.vectorcontrols.com/products/x2

Also available are programming instructions for technicians and an application database.



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