



## **Input Extension AEI-4UI**

The AEI-4UI is an accessory for X2 controllers to extend 4 physical inputs. Each input may be setup through jumpers as input for a passive temperature sensor (NTC10k $\Omega$ ), a 0...10 VDC or 0...20 mA signal.

The AEI-4UI is connected to the X2 controller through the OP-bus connection. Should an operation terminal be required, it must then be removed from the X2 controller and plugged instead into the AEI-4UI.

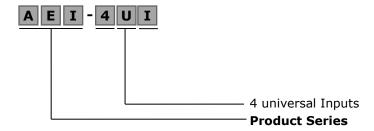
## **Applications**

- Air Handling Unit (AHU)
- Input extension for any X2 controller

#### **Functions**

- 4 additional universal inputs
- suitable for devices with X2 operating system
- no additional power supply necessary, as this is provided directly by the controller

## Name



## **Types and Ordering**

Product Name	Product No.	Description
AEI-4UI	40-50-0138	Input extension for X2 operating system



## **Technical specifications**

## Important safety instructions

This device serves as an accessory to a universal control device. It's not a safety device! If equipment failure endangers people's lives and/or property, it is the responsibility of the customer, installer and system integrator to add additional safety devices to prevent a system failure caused by such equipment failure. Failure to comply with specifications and local regulations may result in damage to equipment and endanger life and property. Tampering with the device and improper use will void the warranty.

Power supply	Power requirements	Power supplied by X2 controller
i ower suppry	Power consumption	Max.0.35W
	Terminal connectors	For wire 0.342.5 mm2 (AWG 2412)
Signal inputs	Universal input	Input jumper set for voltage or current
	Input signal	010 V or 020 mA
	Resolution	9.76 mV or 0.019 mA (10 bit)
	Impedance	Voltage: 74.8kΩ Current: 158Ω
	Passive input	Input jumper set to temperature (RT) or digital
	Type & range	input (DI)
		NTC (Sxx-Tn10): -40140 °C (-40284 °F)
Environment	Operation	To IEC 721-3-3
	Climatic conditions	class 3 K5
	Temperature	050 °C (32122 °F)
	Humidity	<95 % RH non-condensing
	Mechanical conditions	class 2M2
	Transport & storage	To IEC 721-3-2 and IEC 721-3-1
	Climatic conditions	class 3 K3 and class 1 K3
	Temperature	-2570 °C (-13158 °F)
	Humidity	<95 % RH non-condensing
	Mechanical conditions	class 2M2
Standards	Degree of protection	IP30 to EN 60 529
	Pollution class	II (EN 60 730-1)
	Safety class: local regulations must be	III (IEC 60536)
	observed!	,
General	Material	Fire proof ABS plastic (UL94 class V-0)
	Dimensions (H x W x D)	60 x 93 x 115 mm (1.18 x 3.66 x 3.66 inch)
	Weight (including package)	240 g (8.1 oz.)

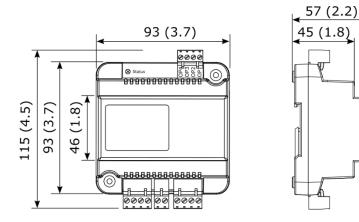
## **Product testing and certification**



**( E** 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".

## Dimension, mm (inch)

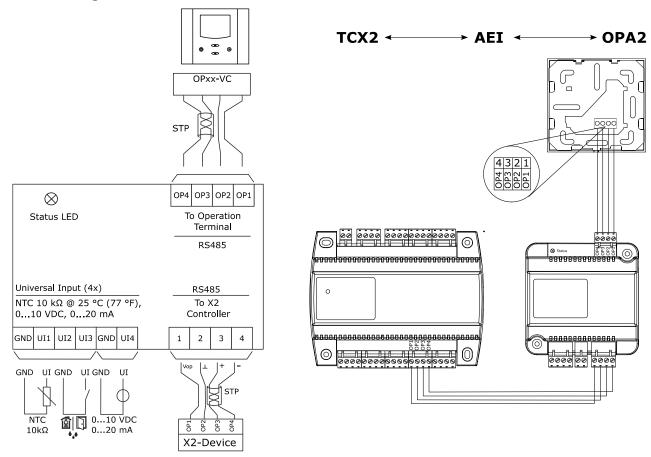




See installation sheet no. 70-000724 (www.vectorcontrols.com).



## **Connection diagram**



## **Configuration of inputs**

The inputs and outputs are configured with jumpers. Jumpers are located underneath the controller.

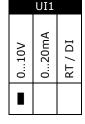
## **UI:** Selection of universal input type

Left position: voltage input (0...10 V)

factory default

Middle position: current input (0...20 mA)

Right position: RT or dry contact



## UI: Configuration of Virtual Input (VI) of the X2 Controller

The physical inputs of the AEI are accessed through the virtual inputs of the X2 device. The first virtual input of the X2 device is mapped to the UI1 of the AEI-4UI. The  $4^{th}$  virtual input maps to the UI4 of the AEI-4UI.

The AEI-4UI can only be accessed by X2 devices running firmware version V1.5 and up.

The "signal type" of the virtual input has to be set to:

- 0xu0 = 4: AEI-4UI

The type of the virtual input has to be set to:

- 0xu5 = 1: 0-10V / 0-20mA

- 0xu5 = 2: 2-10V / 4-20mA

- 0xu5 = 3: NTC

#### **LED-indicators**

A status LED is located on the upper left side of the housing. During normal operation the LED blinks briefly once every 5 seconds. If there is an alarm or fault condition it will blink every second.



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