



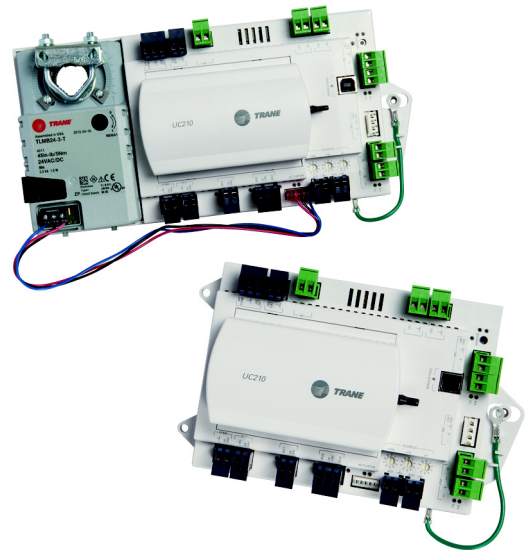
Product Data Sheet

Tracer™ UC210 Programmable VAV Controller

The Tracer UC210 is optimized for VAV applications and can be factory or field-installed.

VAV applications include:

- Space temperature control
- Flow tracking
- Ventilation flow control



Ordering Numbers

Order Number	Description
BMUC210AAA0T00011	UC210 Programmable VAV Controller with Trane actuator
BMUC210AAA0B00011	UC210 Programmable VAV Controller with Belimo actuator
BMUC210AAA0100011	UC210 Programmable VAV Controller with no actuator

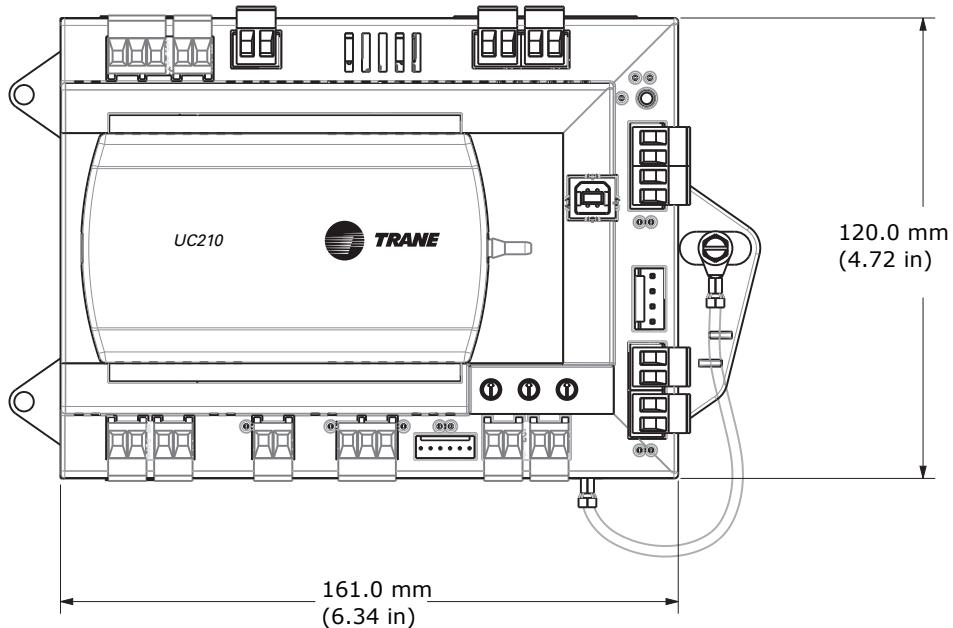
Features and Benefits

Features	Benefits
BACnet MS/TP	An open standard building automation communications protocol, which enables connections to other BAS systems and controllers
Configurable and fully programmable	<ul style="list-style-type: none"> • VAV programs available through quick configuration for lowest setup time • Programmable for flexibility to meet unique sequence or hardware needs
Total of 14 built-in I/O points	Meets the needs of most VAV applications with extra built-in I/Os available to network, or additional programming on controller
Expandable to 22 points	Flexibility to meet additional equipment needs

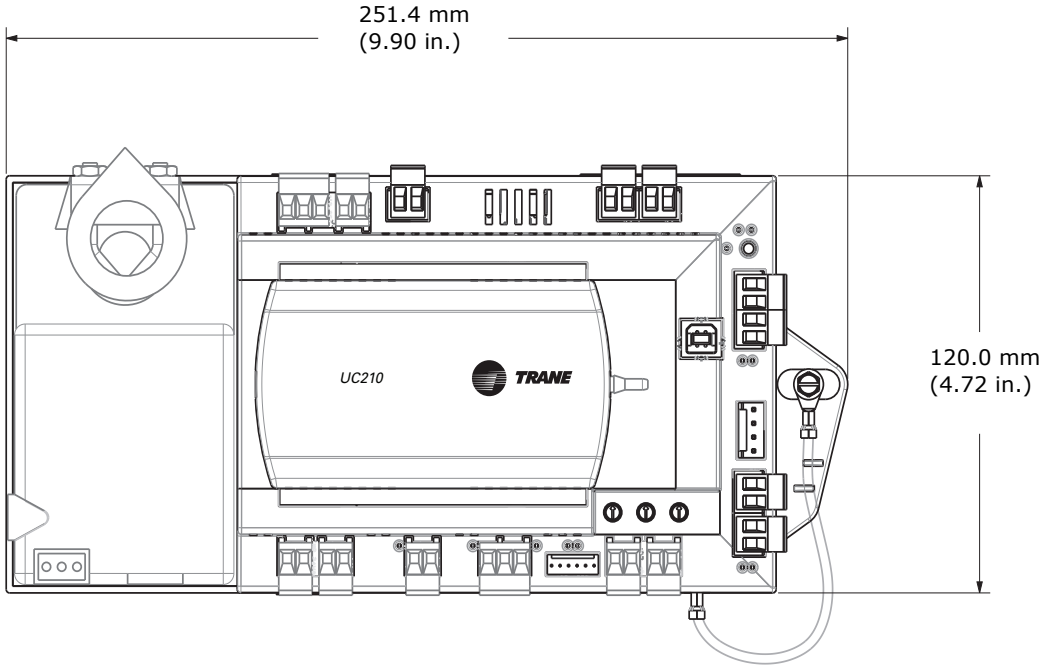
Controller Specifications and Enclosure Location

Storage	
Temperature:	-40°F to 185°F (-40°C to 85°C)
Humidity:	5% to 95% (non-condensing)
Operating	
Temperature:	-40°F to 158°F (-40°C to 70°C)
Humidity:	5% to 95% (non-condensing)
Power:	20-4-27.6 Vac, (24 Vac ±15% nominal, 50-60 Hz, 10.5 VA plus 1 VA per 20mA of 24 VDC load plus 12 VA maximum per binary load)
Environmental Rating (Enclosure):	NEMA 1
Installation:	U.L. 840: Category 3
Pollution:	U.L. 840: Degree 2
Agency Compliance	
<ul style="list-style-type: none"> • UL916 PAZX- Open Energy Management Equipment • UL94-5V Flammability • CE Marked • FCC Part 15, Subpart B, Class B Limit • AS/NZS CISPR 22:2006 • VCCI V-3/2008.04 • ICES-003, Issue 4:2004 • Communications BACnet MS/TP, supports BACnet protocol ASHRAE 135-2004 and meets BACnet Testing Laboratory (BTL) as an Application Specific Controller (ASC) profile device • Suitable for Plenum mounting 	

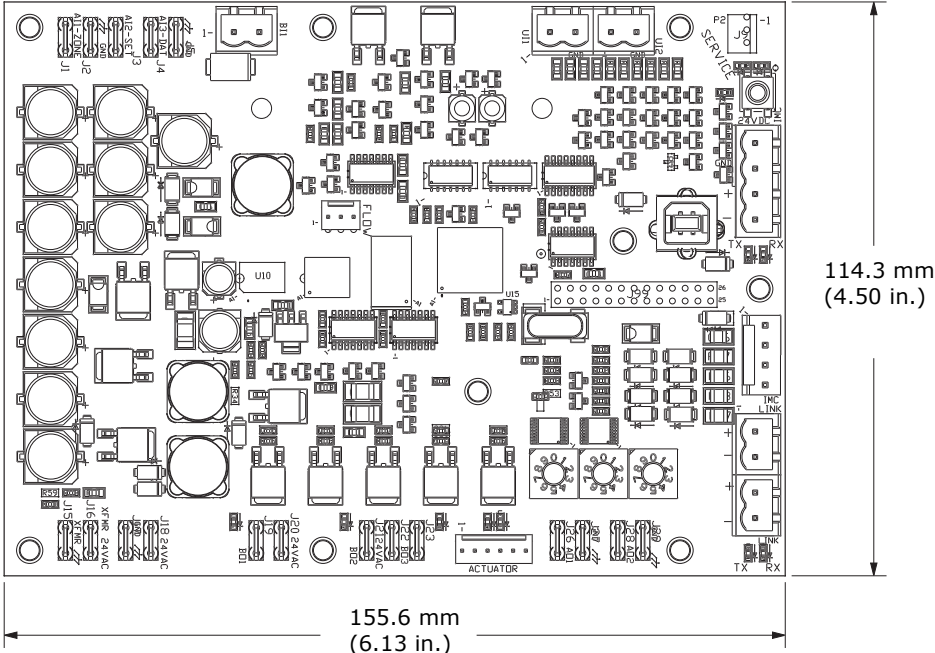
Dimensions (Without Actuator)



Dimensions (with Actuator)



Dimensions (Trane VAV Factory Version)



Inputs and Outputs

<p>Analog Inputs 1 through 3 Note: Configuration options when used as spare; 10kΩ thermistor, 0 to 1kΩ linear setpoint, 200Ω to 20kΩ linear.</p> <ul style="list-style-type: none"> • AI1: Space temperature; thermistor: 10kΩ @77°F (25°C) range: 32°F to 122°F (0°C to 50°C) • AI2: Space setpoint; potentiometer: 1kΩ from 50 to 90°F (10 to 32.2°C), */** (thumbwheel) functionality supported • AI3: Discharge air temperature: 10kΩ @77°F (25°C) from -40°F to 212°F (-40 to 100°C) 	<p>Universal Inputs UI1 and UI2 Note: Configuration options when used as spare; 4–20mA, 0–10V, resistive (see AI specifications), binary (solid state open collector).</p> <ul style="list-style-type: none"> • UI1: Relative Humidity • UI2: CO₂
<p>Pressure Input P1</p> <ul style="list-style-type: none"> • P1: Supply air flow; pressure transducer: From 0 to 5 in. water column (0 to 1240 Pa) 	<p>Binary Input BI1, Dry Contact</p> <ul style="list-style-type: none"> • BI1: Occupancy
<p>Analog Outputs AO1 and AO2 Note: Configuration options when used a spare; Voltage output is 0 to 10 VDC, 500 ohm min. impedance. Current output is 4 - 20 mA, 500Ω max. impedance.</p> <ul style="list-style-type: none"> • AO1: ECM • AO2: SCR Heat 	<p>Binary Outputs 1 through 5 Note: 0.5A Resistive Maximum Rating</p> <ul style="list-style-type: none"> • BO1: Heat stage 3 TRIAC • BO2: Heat stage 2/Water Valve Close TRIAC • BO3: Heat stage 1/Water Valve Open TRIAC • BO4: Air Damper Close TRIAC • BO5: Damper Open TRIAC



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Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice.