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

<table>
<thead>
<tr>
<th>Order Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMUC210AAA0T00011</td>
<td>UC210 Programmable VAV Controller with Trane actuator</td>
</tr>
<tr>
<td>BMUC210AAA0B00011</td>
<td>UC210 Programmable VAV Controller with Belimo actuator</td>
</tr>
<tr>
<td>BMUC210AAA0100011</td>
<td>UC210 Programmable VAV Controller with no actuator</td>
</tr>
</tbody>
</table>

### Features and Benefits

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BACnet MS/TP</td>
<td>An open standard building automation communications protocol, which enables connections to other BAS systems and controllers</td>
</tr>
<tr>
<td>Configurable and fully programmable</td>
<td>• VAV programs available through quick configuration for lowest setup time</td>
</tr>
<tr>
<td>Total of 14 built-in I/O points</td>
<td>• Programmable for flexibility to meet unique sequence or hardware needs</td>
</tr>
<tr>
<td>Expandable to 22 points</td>
<td>Meets the needs of most VAV applications with extra built-in I/Os available to network, or additional programming on controller</td>
</tr>
<tr>
<td></td>
<td>Flexibility to meet additional equipment needs</td>
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</tbody>
</table>
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**

- 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)**

![Diagram showing the dimensions of the controller](image)
Dimensions (with Actuator)

Dimensions (Trane VAV Factory Version)
## Inputs and Outputs

### Analog Inputs 1 through 3
**Note:** Configuration options when used as spare; 10kΩ thermistor, 0 to 1kΩ linear setpoint, 200Ω to 20kΩ linear.

- **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)

### 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).

- **UI1**: Relative Humidity
- **UI2**: CO₂

### Pressure Input P1
- **P1**: Supply air flow; pressure transducer: From 0 to 5 in. water column (0 to 1240 Pa)

### Binary Input BI1, Dry Contact
- **BI1**: Occupancy

### Analog Outputs AO1 and AO2
**Note:** Configuration options when used as spare; Voltage output is 0 to 10 VDC, 500 ohm min. impedance. Current output is 4 - 20 mA, 500Ω max. impedance.

- **AO1**: ECM
- **AO2**: SCR Heat

### Binary Outputs 1 through 5
**Note:** 0.5A Resistive Maximum Rating

- **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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