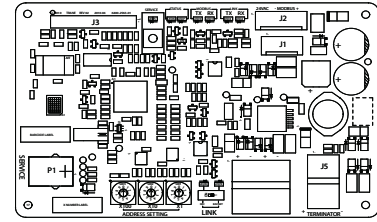




# Product Data Sheet



## BACnet<sup>®</sup> Communication Interface for Precedent<sup>™</sup>, Odyssey<sup>™</sup>, and Voyager<sup>™</sup> Systems

The BACnet<sup>®</sup> Communication Interface for ReliaTel<sup>™</sup> (BCI-R) unit control is a communications module that allows heating, ventilation, and air-conditioning (HVAC) equipment to communicate on a BACnet communications network. This device is a non-programmable communication module that connects directly to ReliaTel controls-based equipment; specifically, Precedent, Odyssey, and Voyager HVAC systems.

**Note:** The BCI-R is not designed for fresh air units (FAU).

### Ordering Numbers

Order Number	Description
BAYBCIR001A	BACnet Communications Interface for ReliaTel
KIT15864	BACnet Communications Interface Kit for ReliaTel

### Features and Benefits

Features	Benefits
BCI Installation	The BCI is offered as a factory- or field-mounted unit and easily installed and can be easily installed on existing mounting areas in the ReliaTel equipment.
Self-configuring/Data Point Manager	BCI is a self-configuring unit that determines data points based on the type of ReliaTel equipment and installed equipment options.
BACnet protocol	BCI device supports BACnet protocol per ASHRAE 135-2004 and meets requirements for BACnet Testing Laboratory (BTL) certification as an Application Specific Controller (ASC) profile device.
Multiple diagnostics on control points	Allows for advanced, remote control, and troubleshooting of equipment.
Compatible with Trane Wireless Comm	Provides wireless communication between Trane BACnet unit and system controllers and zone sensors. This allows faster, easier, lower-risk installation and life-cycle savings due to future space re-configuration, upgrades, and expansions.



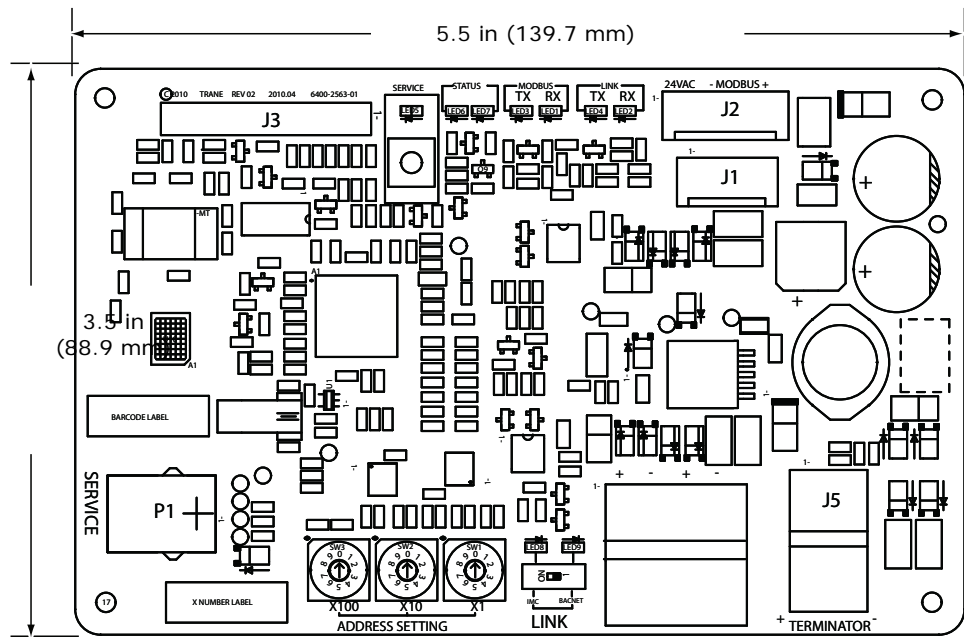
## Specifications and Controller Dimensions

The following table provides specifications and requirements for the BCI-R controller. All BCI-R controllers are color-coded red for easy identification.

**Table 1. BCI-R Specifications**

Storage	
Temperature:	-44°C to 95°C (-48°F to 203°F)
Relative humidity:	Between 5% to 95% (non-condensing)
<b>Note:</b> The BCI-R controller has been designed to withstand the effects of dust and corrosion.	
Operating	
Temperature:	-40°C to 70°C (-40°F to 158°F)
Humidity:	Between 5% to 95% (non-condensing)
Power:	24 Vdc ±15%, maximum load 90 mA

### Dimensions:



The maximum depth of the controller is 1.5 in (38.1 mm)

The following table contains a partial list of points that are available on the BCI-R controller. Available points are dependent on the equipment configuration. For a complete list of BACnet points, refer to the *BCI-R Integration Guide, BAS-SVP09-EN*.

**Table 2. Available BCI-R Controller Points**

<b>BAS Setpoint Values</b>	<b>BAS Control Commands</b>
Space Temperature	Economizer Enable
Economizer Minimum Position	Emergency override command
Discharge Air Cooling	Occupancy request
Discharge Air Heating	Heat Cool Mode request
Outdoor Air Minimum Flow	<b>BAS Sensor Values</b>
Cool Capacity Enable	Duct Static Pressure
Heat Capacity Enable	Space Static Pressure
Space Dehumidification	Space Temperature
Morning Warmup	Outdoor Air Temperature
Occupied Temperature Offset	Outdoor Air Humidity
Standby Temperature Offset	Space CO <sub>2</sub> Concentration
Unoccupied Cooling Temperature	Space Humidity
Unoccupied Heating Temperature	Duct Static Pressure
<b>Controller Status</b>	<b>Controller Active Values</b>
Cooling Capacity	Exhaust Damper Position Status
Heating Primary Capacity	Space Temperature
Reheat Capacity	Space Humidity
Supply Fan Speed Command	Outdoor Air Temperature
Exhaust Fan Speed Command	Discharge Air Temperature
Filter Runtime	Mixed Air Temperature
Trane Unit Type	Return Air Temperature
Economizer Type	Duct Static Pressure
Heat Cool Mode	Space Static Air Pressure
Occupancy	Space CO <sub>2</sub> Concentration
Setpoint Source	Outdoor Air Flow
Timed Override	
Outputs	
System Control	
Compressor Lockout	
Alarm Relay Output	
Binary Alarm Diagnostics	

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