

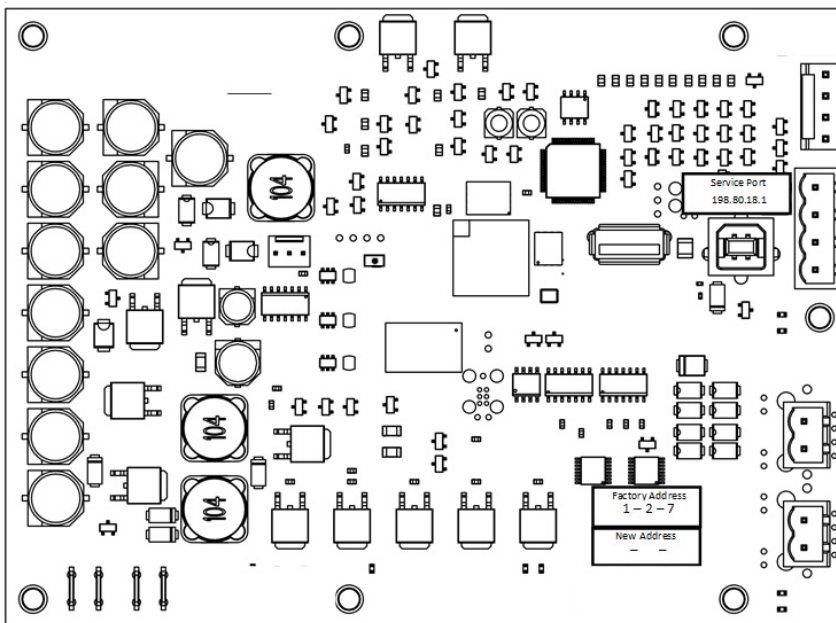


Product Data

BACnet[®] Communication Interface 2

For Precedent[™], Odyssey[™], and Voyager[™]
Systems

Data Sheet



Ordering Number:
BAYBCI200AA

Description:
BACnet[®] Communications Interface 2 Kit for ReliaTel[™]

⚠ SAFETY WARNING

Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.



Trademarks

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Overview

The BACnet® Communication Interface for ReliaTel™ (BCI2-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 BCI2-R is not designed for fresh air units (FAU).

Features and Benefits

Features	Benefits
BCI2-R Installation	The BCI2-R 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	BCI2-R is a self-configuring unit that determines data points based on the type of ReliaTel equipment and installed equipment options.
BACnet® protocol	BCI2-R device supports BACnet® protocol per ASHRAE 135-2004 and meets requirements for BACnet Testing Laboratory (BTL) certification as a BACnet Building Controller (B-BC) profile device.
Multiple diagnostics on control points	Allows for advanced, remote control, and troubleshooting of equipment.
Compatible with Trane Air-Fi® Wireless Communication System	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.

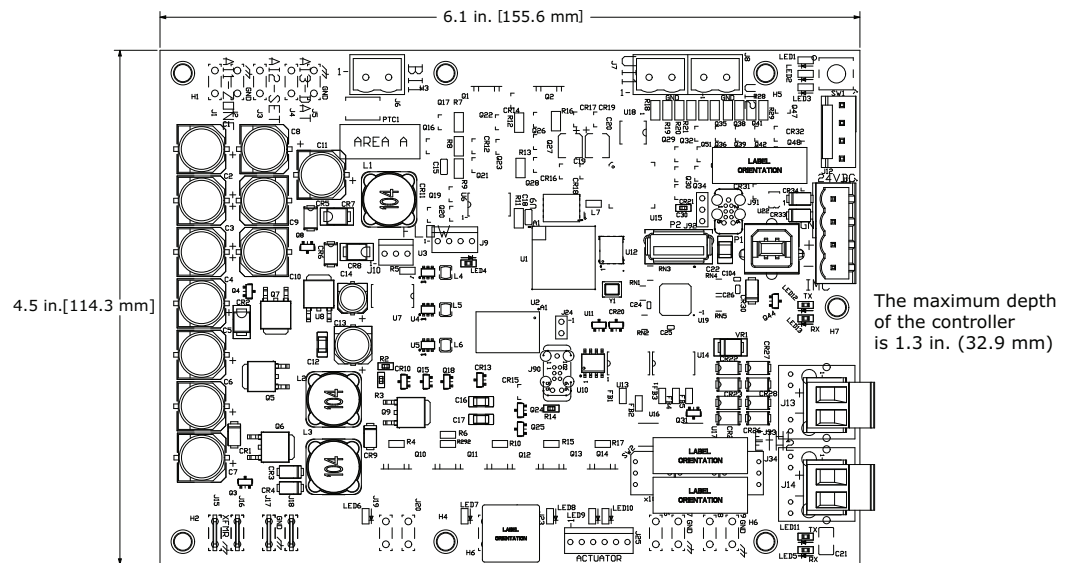
Specifications and Controller Dimensions

The following table provides specifications and requirements for the BCI2-R controller.

Table 1. BCI2-R specifications

Storage	
Temperature:	-44°C to 95°C (-48°F to 203°F)
Relative humidity:	Between 5% to 95% (non-condensing)
Note: The BCI2-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)
Relative Humidity:	Between 5% to 95% (non-condensing)
Power:	24 Vdc ±15%, maximum load 90 mA

Dimensions



The following table contains a partial list of points that are available on the BC12-R controller. Available points are dependent on the equipment configuration. For a complete list of BACnet points, refer to the *BACnet® Communication Interface for ReliaTel™ Controllers (BC12-R) Integration Guide (BAS-SVP053*-EN)*.

Table 2. Available BC12-R controller points

BAS Setpoint Values	BAS Control Commands
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	BAS Sensor Values
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 ₂ Concentration
Unoccupied Cooling Temperature	Space Humidity
Unoccupied Heating Temperature	Duct Static Pressure
Controller Status	Controller Active Values
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

Table 2. Available BCI2-R controller points (continued)

BAS Setpoint Values	BAS Control Commands
Economizer Type	Duct Static Pressure
Heat Cool Mode	Space Static Air Pressure
Occupancy	Space CO ₂ Concentration
Setpoint Source	Outdoor Airflow
Timed Override	
Outputs	
System Control	
Compressor Lockout	
Alarm Relay Output	
Binary Alarm Diagnostics	

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