



— Sensors to Cloud —

BCC-101- 4

Bridge Point Cloud Connector

RS-485 Gateway for Controllers to CoolGuard Cloud

Technical Specifications

System Overview

BCC-101-4 is an industrial-grade BridgePoint Controller designed to interface cold room controllers and energy meters with the CoolGuard Cloud platform. It enables real-time monitoring, diagnostics, and analytics of temperature controllers, compressor status, and electrical energy parameters through RS485 communication and secure 4G connectivity.

Cloud Logger Specification

Channel Capacity	Supports 4, 8, or 16 input channels for simultaneous connection and monitoring of multiple controllers and energy meters.
Communication Protocol	Industrial RS485 interface using Modbus RTU protocol for controller and energy meter integration; Ethernet and 4G/LTE for cloud communication.
Data Logging Interval	Flexible, user-configurable logging interval from 1 to 60 minutes for optimized data resolution and bandwidth usage
Memory	Inbuilt memory for data backup in case of connectivity disruptions, ensuring no data loss.
Housing	ABS plastic casing
Dimensions	40 x 78 x 55 mm
Firmware Update	Over-the-Air (OTA) capability
Power Supply	Industrial-grade 240V AC power input, designed for continuous operation in electrical panel environments

Key Features	Applications
4 RS485 input channels for multi-device connectivity	Cold storage temperature & compressor monitoring
Supports cold room controllers and energy meters	Energy consumption monitoring at machine or DB level
4G LTE cloud connectivity with fallback buffering	Pharmaceutical & food processing facilities
Real-time data logging and cloud synchronization	Multi-chamber cold rooms and freezer plants
DIN rail & wall-mountable	Warehouse automation and audit compliance

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CoolGuard IoT Devices offer advanced, real-time monitoring solutions designed for precise temperature and humidity control in critical environments such as cold storage, medical facilities, and logistics. With seamless cloud integration, high-accuracy sensors, and remote access capabilities, CoolGuard devices ensure continuous oversight, alerting users instantly to any deviations. Built to meet rigorous industry standards, CoolGuard provides reliable data insights to protect sensitive assets and maintain compliance.