

# BACnet Motor Gateway

The BMS Interface for the Turntide Smart Motor System™

The Turntide BACnet Motor Gateway provides a cost-effective solution to interface a Turntide smart motor to a building management system (or BMS) using BACnet protocol. A single BACnet Motor Gateway can seamlessly connect a Turntide motor to any BMS network using BACnet MS/TP or BACnet IP.

The device has been pre-configured for Turntide motors to reduce onsite programming. Onboard dip switches further simplify the device setup by allowing the configuration of the BACnet address and baud rate, as well as the selection of pre-programmed applications.

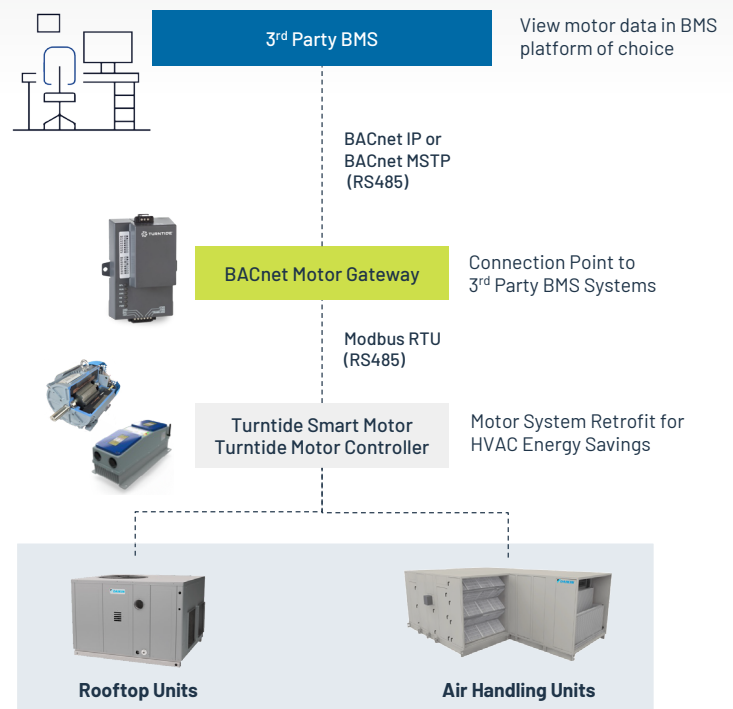


## Key Features and Benefits

- **Connect Turntide to Your BMS System:** Field selectable for BMS communications using BACnet MS/TP over RS485 or BACnet IP
- **No Additional Programming Required:** No additional software programming needed when using the built-in application which supports the Turntide smart motor
- **No Computer Needed for Set-Up:** Onboard dip switches for setting BACnet communication\*
- **BTL Certified:** Certified for compliance and interoperability with BACnet standards as a BACnet Application Specific Controller (B-ASC)
- **Seamless Set-Up Process:** On-board diagnostics allow for easy troubleshooting of both serial and Ethernet communications

\*BACnet IP communications may require a 1 time connection to set the unit IP address

## Architecture



Note: IA Remote Monitoring Kit (RMK) can additionally be used to provide BOS access for the motor to the BMS system. If using an RMK and the BACnet Motor Gateway, the motor controller should be running firmware version 2.5 or above.

## Hardware Specifications

<b>SKU</b>	CTL-BACG-001
<b>Interface Connections</b>	2x RS485, 1x Ethernet connection
<b>Power Requirement</b>	9-30 VDC or 12-24 VAC
<b>Current Draw</b>	240 mA @ 12 VDC
<b>Operating Temperature</b>	-20 to 70°C (-4 to 158°F)
<b>Relative Humidity</b>	10-95% RH non-condensing
<b>Enclosure Dimensions (H x W x D)</b>	4.5 x 3.2 x 1.6 inches (11.5 x 8.2 x 4.0 cm)
<b>Serial Port Isolation</b>	1500v galvanic isolation
<b>Weight (Net)</b>	0.30 lbs (.14 kg)
<b>BACnet Support (BTL Marked)</b>	<ul style="list-style-type: none"> <li>• Read properties multiples</li> <li>• BACnet COV's and BBMD</li> <li>• Supports ~200 BACnet objects (varies based on system configuration)</li> <li>• DIP switches are for setting BACnet Address and Baud Rate on the RS-485 field protocol</li> </ul>
<b>Approvals</b>	<ul style="list-style-type: none"> <li>• CE and FCC part 15</li> <li>• BTL marked ver 16</li> <li>• UL 916 and CA/CSA C22.2</li> <li>• RoHS3 and WEEE compliant</li> <li>• Modbus conformance tested</li> <li>• UKCA compliant</li> </ul>
<b>BACnet Points List</b>	A full list of points are available upon request. Contact <a href="mailto:hvacmotorsales@turntide.com">hvacmotorsales@turntide.com</a>

## Certification Marks



Warning: This equipment is compliant with Class A of CISPR 32.

In a residential environment, this equipment may cause radio interference.

BACnet® is a registered trademark of ASHRAE.

### TURNTIDE TECHNOLOGIES

Our breakthrough technologies accelerate electrification and sustainable operations for energy-intensive industries