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## **SUB10A-ZP RS-485 to Zigbee Operation Description**

This device (SUB10A-ZP) is designed to work with the Control4® home automation system and should be installed according to the instructions in the User Manual installation guide. From that point the operation is automatic with no user intervention. It is designed to connect to appliances such as refrigerators and ovens to allow them to be incorporated into the automation system. It also has an internal reed switch that can be activated from an external magnet. There is an internal thermistor for sensing ambient temperature. The device connects to the appliance through a 6P6C connector which provides power to the device and an RS-485 serial connection. It is a serial-to-Zigbee bridge that creates a packet and transmits it to the system allowing communication between the system and the appliance. The result of this information and any action associated with it depends on how the installer programs the Control4® system. In addition to the packet transmissions generated by appliance events, the unit will also periodically check in with the system.

The radio is a Zigbee radio using 15 channels from 2.405 GHz up to 2.465 GHz. The transmit power is 10dBm. This is an 802.15.4 radio and it uses O-QPK modulation.