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## QW Series

ZigBee Wireless Devices

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### Description

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The QW Series allows monitoring and programming of building controls over a wireless network. This wireless network replaces the hard-wired RS485 bus. By eliminating the need for running communication cables between devices, the wireless network provides an economical means to easily expand existing controller networks.

The QW1010A ZigBee Wireless Gateway manages the ZigBee wireless network. It connects a TCS Basys Controls ZigBee wireless network directly to a USB port of a PC or to an RS485 port of a QD1010. (one QW1010A per ZigBee Wireless network)

The QW1011 ZigBee Wireless Repeater extends the reach of the wireless network. Can be used to circumvent obstacles interfering with the wireless communications.

The QW1100 ZigBee Wireless Single Bridge connects a single, non-wireless TCS Basys Controls device to the TCS Basys Controls ZigBee wireless network or can also be used as a repeater if needed.

The QW2100 ZigBee Wireless Multi-Bridge connects multiple (up to 15 devices) hard-wired TCS Basys Controls devices to a TCS Basys Controls ZigBee network.

**NOTE:** All of the QW Series devices listed above work with the SZ10XXW series thermostats which have built-in ZigBee wireless capabilities.

#### The QW Series Features:

- QW1010A: Selectable Data Formats, RS232 or RS485
- QW2100: Connects up to 15 Hard-Wired Controls to the Wireless Network

### Specifications

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#### GENERAL:

**Communication baud rate:** 9.6 kbps

#### RADIO:

**Output:** 100 mW at 2.4 GHz

**Protocol:** ZigBee, IEEE 802.15.4 compliant

**Transmission interval:** 5 sec.

**Antenna:** Internal to Unit

**Power:** 24 VAC (unit transformer may be used)

#### Open field range:

Gateway = 1000 ft

Router / Repeater = 1000 ft.

Bridge = 1000 ft.

**In building range:** 150 to 500 ft (typical range, actual range depends heavily on building structure, makeup, and layout)

**Max devices:** 15 wireless devices per gateway (QW1010) or multi-bridge (QW2100)

#### ENVIRONMENTAL:

**Operating temperature:** 32 to 130°F (0 to 55°C)

**Operating humidity:** 0 to 100% RH, non-condensing

**Storage temperature:** 14 to 140°F (-10 to 60°C)

#### ELECTRICAL:

**Supply voltage:** 120 VAC @ 60 Hz to 12 VDC power supply module included or 12 to 24 VAC

**Power consumption:** 1 VA Max

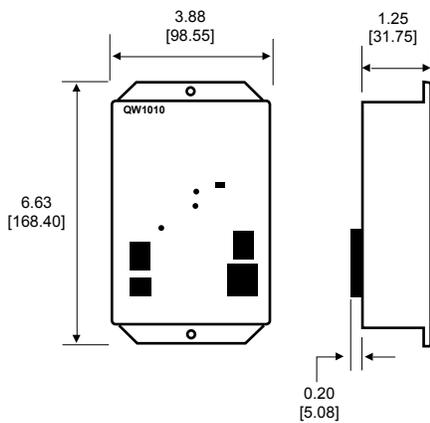
Specifications subject to change without notice.

# Ordering Information

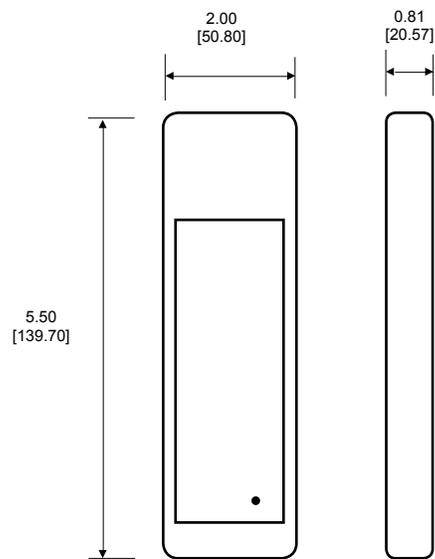
Part No.	Description
QW1010A	USB ZigBee Wireless Gateway
QW1011	ZigBee Wireless repeater
QW1100	Zigbee Wireless Bridge - Single Device
QW2100	ZigBee Wireless Bridge - Multi-Device (Up to 15 hard wired devices)
SZW Superstat Series	ZigBee Capable wireless thermostats (SZ10XXW Series)
QD1010	RS485 to RS232 Converter
QD2040	Embedded site communication center
SZ Superstat Series	Hard-Wired thermostat (SZ10XX Series)
2100 Supertrol Series	SL21XX + SZ21XX Series Controllers

# Dimensions

QW1010A



QW1100/QW1011



QW2100

