**Bluetooth® Wireless Technology**

**Smart-Sync™ Bridge**

Smart-Sync Bridge is a key component of the Bluetooth® wireless technology synchronized clock network offered by Primex. The Smart-Sync solution consists of a clock network that utilizes Bluetooth low energy wireless technology as its communication method. The Smart-Sync Bridge communicates with the OneVue cloud application, acquiring accurate time and clock configuration information and passing the information to the clocks within the network. The Smart-Sync Bridge also relays clock status back to OneVue via an Ethernet connection. Information on individual clocks such as battery status, radio frequency conditions and clock or network errors are also relayed to OneVue by the Smart-Sync Bridge.

The Smart-Sync solution uses Bluetooth low energy wireless technology to form the inter-clock and clock-to-bridge connections. Bluetooth low energy wireless technology uses the 2.4 GHz ISM band and employs adaptive frequency hopping techniques to reduce interference with other devices.

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![Diagram](image)

**SMART-SYNC BRIDGE**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>BC100-E</td>
<td>Smart-Sync with Ethernet (POE capable)</td>
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</table>

Note: Orient the Smart-Sync Bluetooth Antenna to point straight down (vertically) from the device to maximize its signal reception.

**ACCESSORIES**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>S100PWR</td>
<td>AC Adapter</td>
</tr>
<tr>
<td>Q13827</td>
<td>AC Adapter Extension 6’ (1.8 M)</td>
</tr>
<tr>
<td>SNS900</td>
<td>Back-up Battery Pack Replacement</td>
</tr>
</tbody>
</table>

Note: Each Smart-Sync Bridge comes standard with an AC-Adapter and Backup Battery pack. The accessories listed above are for re-order or if an AC power cable extension is required (installation specific).
SMART-SYNC BRIDGE KEY FEATURES:

- Each Smart-Sync Bridge supports a network of up to 200 Smart-Sync capable clocks*
- Supports bi-directional communication with Smart-Sync Clocks
  - Sends updated Time & Configuration to clock network
  - Receives individual clock status from clocks and network
- Updates time, collects and reports clocks status once per day after 8 hour deployment mode**
- Supports OneVue connections via Ethernet (POE capable)
- Provides back-up battery support: ~8 hours of backup usage without external power applied
- LCD display
  - Connection icon for OneVue connection status
  - LCD provides Smart-Sync Bridge status information
- LED indicators
  - Green LED indicates external power is applied
  - Yellow LED signals connection issues with OneVue
  - Red LED signals Smart-Sync Bridge not able to get NTP time

*This number may vary depending on location of Smart-Sync Bridge, distance between clocks, number of floors and possible electronic interference (in healthcare settings)

**Deployment Mode is entered when clocks and Smart-Sync Bridge are 1st powered on, network builds every ½ hour for 8 hours

Power:
- AC Power Adapter
  - 5V DC USB Mini B (5 pin Connector)
  - 5 ft (1.5m) cable
  - Input: 100-240 VAC, 50/60HZ, 0.4A
  - Output: 5V, 1.0A max
- Power-Over-Ethernet (Model dependent)
  - Compliant with IEEE 802.af standards

Enclosure:
- ABS plastic
- Case Dimension: 4.7” H x 3.7” W x 1.3” D (11.93cm x 9.39cm x 3.30cm)
- External Antenna Dimension: 3.3” L (8.4cm), 0.3” Diameter (0.8cm)
- Weight: 0.3 lb (136 grams) with backup battery pack
- LCD display size: 0.75” H x 1.38” W (1.90cm x 3.50cm)
- LED Status Indicators: green, yellow, red
- Two User Buttons: LED Alarm Silence button, manual network connection button
- Mounting Options: Keyhole slot for wall mounting, or surface/wall mounting using supplied dual-lock adhesive mounting strips

Environmental:
- Operating temp: 32°F to 122°F (0 °C to + 60 °C)
  - indoor use only
- Storage temp: -4°F to 140°F (-20° C to + 85° C)

Certifications:
- FCC, CE, IC and Bluetooth® Certified

To Learn More:
- Call 800.537.0464
- Email: info@primexinc.com

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