RC102 - 2.4 GHz Wireless Rack Mount Master Clocks

Highlights

- OXCO Oscillator that is accurate to 2 PPB (parts per Billion) or 1 second over 20 years
- Accuracies of 0.2 PPB utilizing an DOCXO Option and 0.05 PPB utilizing the Rubidium Atomic Oscillator Option
- NTP Time Synchronization Standard, Wireless GPS is optional
- Synchronizes time across your facility or campus using multipath technology
- Automatically adjusts time for daylight savings time (DST)
- Supports dual redundant master clock operation
- Ability to have redundant master clocks that automatically switch between primary and secondary.
- Provides time updates to secondary devices 86,400 times per day
- 2.4 GHz, Direct Sequence, Spread Spectrum Technology
- Operates on the Industrial, Scientific and Medical band
- DuraTime clocks advanced digital radio technology has 16 times the transmit power of competing clock systems.
- Rule based method for setting DST, makes it easy to update Government DST rule changes
- Designed to operate on Ethernet standards IPv4 and Ipv6
- No FCC license required
- AES 128 bit data encryption for secure, reliable communications
- Ideal replacement clock system for expensive to maintain hardwired clocks
- Energy efficient operation
- Assembled in the U.S.A.
- Patents Pending
- FCC part 15.247 certified, CE certified
### 2.4 GHz Wireless Rack Mount Master Clock

#### Specifications

- **Time Base**: 20 years
- **Backup Battery Life**:
- **Synchronized Accuracy**: 10 milliseconds
- **Stand Alone Accuracy**: 2 PPB (1 second in 20 years)
- **Average Current**:
  - 100 mA @ 110 VAC
  - 50 mA @ 220 VAC
- **Operating Frequency**: 2.4 GHz Direct Sequence, Spread Spectrum
- **Radio Band**: Industrial, Scientific and Medical (ISM)
- **Data Encryption**: AES 128 Bit
- **Display**: 12 and/or 24 hour format
- **Compliance**: FCC Part 15.247
- **Case Dimensions**: 19"W x 3.5"H x 5.5D" (482mm x 89mm x 140mm)
  - 2 - Rack Units High
- **Weight**: 3.0 lbs. (3.18 kg)
- **Case**: Plastic
- **Color**: Black

#### Ordering Information

**Master Clocks & Accessories**

- RC102 - OCXO Rack Mount Master Transmitter
  - 2.4 GHz Transceiver
  - AC/DC Power Adapter
  - 10 ft. Cat 5 Cable
- RC161 - GPS to Wireless (GPS antenna and wireless transmitter)

**Options**

- DOCXO - Double Oven Controlled Crystal Oscillator
  - Accuracy of 0.2 PPB
  - (0.006 Seconds per Year)
- RBXO - Rubidium Atomic Clock Oscillator
  - Accuracy of 0.05 PPB
  - (0.0016 Seconds per Year)