Description
Detcon SmartWireless® Site Sentinel CX Controller is an accessory to the SmartWireless® CXT and is easily and economically deployable in both permanent and temporary installations. The CX wirelessly transmits the data from up to 4 wired gas detectors back to the CXT and includes a battery that powers the radio, alarm devices, and the attached sensors. The Sentinel CX is compatible with Detcon’s Model RXT transceivers. Flexible and expandable, a Site Sentinel network can include up to 32 devices and consist of any combination of wireless and/or wired sensors, one or more Site Sentinel control panels, and alarm warning devices.

Options include audio alarm, visual alarm, external alarm port, and up to 4 external wired sensor inputs. Standard features include a power-in port and power switch.

The control panel is rated for Class 1, Division 2; Groups B, C, D hazardous areas. Power is provided by an internal rechargeable battery and/or 14 to 30VDC. Operating time is 1-2 months before recharge is required. An optional solar charging panel can be used to extend operating time for virtually any application.

Features
- Compatible with Detcon RXT transceivers
- Up to 4 wired gas detectors
- Optional strobe & horn

Applications
- Oil and gas drilling rigs
- Oil and gas production sites
- Wastewater treatment plants
- Food and beverage processing
- Pulp and paper mills
- Refining and petrochemical
**System Specifications**

**Input/Output**
- 2.4GHz DSSS Radio Transmission
- Wired device inputs: 4-20mA

**Capacity**
- Up to 4 wired gas detectors

**Safety Approvals**
- cMETus Class 1; Division 2 (Stainless Steel Enclosure)
- NEMA4 General Purpose (GRP)
- CE Marking

**Warranty**
- One Year

**Environmental Specifications**

**Operating Temperature Range**
- -20°C to +60°C; -4°F to +140°F

**Optional Visual Alarm**
- Light Output: 1.75 Joules per flash
- Lamp Type: Xenon strobe lamp
- Flash Rate: 60 to 80 flashes per minute

**Optional Audio Alarm**
- Mode of Operation: Continuous Tone
- Frequency: 2900 Hz ± 500 Hz
- Loudness: 80 - 90 dB(A) min. @ 2 FT @ 6 - 28 Vdc

**Order Guide**

<table>
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<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>954-CX04___0_</td>
<td>SmartWireless® Site Sentinel CX Controller, up to four gas detector input Alarm &amp; Control System in stainless steel enclosure: Class 1; Division 2, Groups A,B,C,D with CXT-320 Transceiver, power-in port and power switch.</td>
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To complete the part number please select from the options below. 9 5 4 - C X 0 4 ___ 0 _

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<tr>
<td>0 - None</td>
<td>0 - None</td>
<td>1 - None</td>
<td>0 - Antenna on Controller</td>
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<tr>
<td>1 - Audible Only</td>
<td>6 - Blue Strobe</td>
<td>2 - Two Wired Sensor Input Ports</td>
<td>1 - Antenna Separation</td>
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<td>2 - Red Strobe</td>
<td>A - Red Strobe &amp; Audible</td>
<td>4 - Four Wired Sensor Input Ports</td>
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<td>3 - Yellow Strobe</td>
<td>B - Yellow Strobe &amp; Audible</td>
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<td>4 - Amber Strobe</td>
<td>C - Amber Strobe &amp; Audible</td>
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<td>5 - Green Strobe</td>
<td>D - Green Strobe &amp; Audible</td>
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<td>E - Blue Strobe &amp; Audible</td>
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**Mechanical Specifications**

**Dimensions**
- 14”W x 21.3”H x 4.75”D; 356mmW x 541mmH x 121mmD

**Weight**
- 15 lbs/6.8 kilograms

**Electrical Specifications**

**Power Input**
- 14-30 VDC and/or Internal Rechargeable Battery (1-2 months operating time)

**Power Consumption** (no alarms and no sensors active)
- Nominal: 150mW
- Maximum: 1 Watt

**Performance**
- Transmit Power Output: 18dBm
- RF: Outdoor RF Line of Sight (with standard antenna): 1.5 Miles
  - Interface Data Rate: 9,600bps
  - Throughput Data Rate: 19,200bps
  - RF Data Rate: 250,000bps
  - Transceiver Sensitivity: -102dBm
  - Frequency: 2.40-2.48GHz
  - RF Channels: 16, each 5Mz Wide
  - Output Power: 100mW (20.5dBm) EIRP
  - Spread Spectrum: DSSS (Direct Sequence Spread Spectrum)
  - Modulation: QPSK
  - Supported Network Topologies: Mesh, Point-to-Point

**Antenna**
- 5db Flex Whip; Screw on Radome Whip Antenna Guard Included

**I/O Protection**
- Over-voltage, Miswiring, EMI/RFI Immunity

**Accessory Options**
- Tripod for Mounting
- Mini Tripod for Mounting
- 7db Gain Antenna
- Solar Charging Panel

Specifications subject to change without notice

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**System Sentinel CX Controller**

**SmartWireless® Alarm & Control System**