

## Site Sentinel CX Controller

Smartwireless<sup>®</sup> Alarm & Control System



### Description

Detcon SmartWireless<sup>®</sup> Site Sentinel CX Controller is an accessory to Detcon controllers 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 wireless controller 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.

### 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

# Site Sentinel CX Controller

## Smartwireless Alarm & Control System

### 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 I; Division 2 (Stainless Steel Enclosure)  
General Purpose

#### 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

#### Part Number Description

954-CX04 \_\_ - \_\_ 0\_ SmartWireless<sup>®</sup> Site Sentinel CX Controller, up to four gas detector input Alarm & 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

To complete the part number please select from the options below.

954 - CX04 \_\_ - \_\_ 0\_

#### Position "8" Alarm Options

0 - None	6 - Blue Strobe
1 - Audible Only	A - Red Strobe & Audible
2 - Red Strobe	B - Yellow Strobe & Audible
4 - Amber Strobe	C - Amber Strobe & Audible
5 - Green Strobe	D - Green Strobe & Audible
	E - Blue Strobe & Audible

#### Position "9" Sensor Gland Plate - Right Side

0 - none  
2 - Two Wired Sensor Input Ports  
4 - Four Wired Sensor Input Ports

#### Position "10" Gland Plate - Left Side

1 - None  
2 - Remote Alarm Output

#### Position "12" Antenna

0 - Antenna on Controller  
1 - Antenna Separation

### 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

100-240 Volts, 50-60 hertz AC or

Internal Rechargeable Battery (1-2 months operating time)

#### Power Consumption (no alarm 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 Range: 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: 0-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

Specifications subject to change without notice

