



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

Site Sentinel CX Controller ■ SmartWireless® Alarm & Control System

R073014

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)
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

Specifications subject to change without notice

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: 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
7db Gain Antenna
Solar Charging Panel

Order Guide

Part Number

954-CX04__-__0__

Description

SmartWireless® 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. 9 5 4 - C X 0 4 __ - __ 0 __

Position "8" Alarm Options:

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

Houston ■

Odessa ■

Shanghai ■

Dammam ■

Del Carmen ■

Europe



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