



## Gas & Flame Detection



# 3M™ Detcon™ Site sentinel controller

Smartwireless® alarm & control system

## Description

Detcon Site Sentinel CXT Controller is a SmartWireless® gas detection and control system that provides operator interface to the network and real time status display of all network devices. The Sentinel CXT 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.

Command functions include alarm reset, alarm acknowledge, alarm test and radio silence. In normal operation the control panel provides real time display of gas concentrations or the status of other field devices; battery charge levels, network RF signal quality and any number of fault diagnostic conditions affecting either an individual field device or the entire network. These fault conditions are displayed on the control screen. Options include audio alarm, visual alarm, external alarm port, alarm reset switch 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. Operator interface is non-intrusive via magnetic contact switches located behind the glass lens cover. This advanced design takes advantage of a low power LCD with back light and ultra low power components. 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.

## 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

## Features

- Compatible with Model RXT-320 Transceivers
- 32 channel capacity panels
- Real time 4 line 40 character LCD
- Field device status and location tag
- Alarm condition LEDs & optional strobe & horn
- Non-intrusive operator interface



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## System specifications

### Input/Output

2.4Ghz DSSS Radio Transmission  
Wired device inputs: 4-20mA

### Capacity

Up to 31 Input Devices

### Display

11/4"x6"Backlit LCD

### Safety Approvals

cMETus Class I; Division 2 Groups A, B, C, D (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

### Description

Site Sentinel CXT Controller, 32 Channel SmartWireless® 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.

### Part Number

954-CXT4 \_ \_ - \_0\_

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

954 - CXT4 \_ \_ - \_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

0 - Alarm Reset Switch
1 - None
2 - Remote Alarm Output
3 - Alarm Reset Switch and 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

17 lbs/7.71 kilograms

## Electrical specifications

### Power Input

24VDC nominal (14-30VDC) and/or  
Internal Rechargeable Battery (1-2 months operating time)

### Power Consumption (does not include wire sensors)

Nominal: 150mW

Maximum: 1.2 Watt (Includes display w/backlight and 4 LEDs active)

### Performance

Transmit Power Output: 18dBm

### RF

Outdoor RF Line of Sight (with standard antenna): 1.0 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: O-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

## Accessories

Tripod for Mounting

Mini Tripod for Mounting

7db Gain Antenna

Solar Charging Panel (For use in Safe Areas only)

Specifications subject to change without notice



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**AMERICAS - Texas (USA)**  
4055 Technology Forest Blvd.  
The Woodlands, TX 77381  
Tel.: +1-713-559-9200  
Fax: +1-713-893-6729

**EMEA**  
ZI Est, Rue Orfila,  
CS 20417  
62027 ARRAS CEDEX, France  
Tel.: +33-3-21-60-80-80  
Fax: +33-3-21-60-80-00

**ASIA PACIFIC**  
290 Guizhao Road  
Pudong, Shanghai 201206  
People's Republic of China  
Tel.: +86-21-3127-6373  
Fax: +86-21-3127-6365