

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 A, 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





System specifications

Input/Output

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

Capacity

Up to 31 Input Devices

Display

1 1/4"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
- 1 - Audible Only
- 2 - Red Strobe
- 4 - Amber Strobe
- 5 - Green Strobe

- 6 - Blue Strobe
- A - Red Strobe & Audible
- B - Yellow Strobe & Audible
- C - Amber Strobe & Audible
- 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: 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

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

