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.

Features
- Compatible with Detcon RXT 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

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

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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
1 1/4” x 6” Backlit LCD

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

Order Guide

Part Number Description
954-CXT4__-_0_ 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.

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

Position “8” Alarm Options:
0 - None
1 - Audible Only
2 - Red Strobe
3 - Yellow 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
1 - Two Wired Sensor Input Ports
2 - 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 wired 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): 1.5 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

Specifications subject to change without notice

Houston  Odessa  Shanghai  Dammam  Del Carmen  Europe

Tel: 713-559-9200
Toll Free: 888-367-4286
Fax: 281-292-2860
Email: sales@detcon.com
Web: www.detcon.com