Description
Detcon SmartWireless® Site Sentinel CX Controller is 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

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

Specifications subject to change without notice

Order Guide

Part Number Description
954-CX04__-_0_ 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. 954-CX04__-_0_

Position “8” Alarm Options:
0 - None
1 - Audible Only
2 - Red Strobe
3 - Yellow Strobe
4 - Amber Strobe
5 - Green Strobe

Position “9” Sensor Gland Plate - Right Side
6 - Blue Strobe
A - Red Strobe & Audible
B - Yellow Strobe & Audible
C - Amber Strobe & Audible
D - Green Strobe & Audible

Position “10” Gland Plate - Left Side
0 - 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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