БЕСПРОВОДНОЕ ОБОРУДОВАНИЕ DETCON

Технические характеристики

SmartWireless®

Model Series CXT Gas Detection Sensor Assembly

Features

• Detcon Model self healing mesh network topology
• Universally accepted 2.4 GHz non-licensed frequency
• Low power gas detection sensors with built-in transceivers
• Built-in display for gas sensor/field device HMI
• Disposable battery packs

Description

Detcon Model CXT are SmartWireless® gas detection sensors designed for use in mobile applications in heavy industrial environments. These low power sensors assemblies utilize one of two technologies and cover a wide range of industrial applications; electrochemical for a long list of toxic gases, infrared for combustible hydrocarbons. All component parts are rated for Class 1; Division 1, Group C, D hazardous areas. These advanced field devices consist of a Detcon Model Series CXT low power gas detection sensor, and wireless transceiver packaged in a single enclosure. Power is provided by a disposable "C" cell battery pack capable of continuous operation for greater than 60 days. Additional power options include a Smart Rechargeble battery with a run time of 5-6 months, a disposable "D" cell battery pack with a run time of 9 months and solar panel providing continuous operation.

Safety Approvals
cCSAus   "C" cell battery pack version only
ATEX*
CE Marking*
IECEx*

Model Series CX Gas Detection Sensor Assembly

Features
- Low Power Gas Detection Sensors
- Built-in Display
- Class I, Div. 1, Groups B, C, & D
- Non-intrusive Magnetic Interface
- Built-in Diagnostics
- Fully Encapsulated Electronics
- Electropolished 316SS Construction
- Quick Thread Release (for sensor replacement)

Description

Detcon Model CX-DM gas detection sensors are easily and economically deployable in both permanent and temporary installations. These low power sensor assemblies utilize electrochemical technology for a long list of toxic gases. Model CX-DM sensors are equipped with standard analog 4-20mA, and Modbus™ RTU RS-485 outputs and can be used with Detcon's SmartWireless® Site Sentinel CX/CXT Controllers as well as other Detcon control systems.

Safety Approvals
cCSAus
ATEX
CE Marking
IECEx

SmartWireless Site Sentinel CXT Controller
Alarm & Control System

Features

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

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 Site Sentinel CXT is compatible with Detcon's Model RXT transceivers and CXT gas detectors. 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 11.5 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.

SmartWireless Site Sentinel CX Controller
Alarm & Control System

Features

• Up to 4 wired gas detectors
• Optional strobe & horn

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.

Safety Approvals
CE Marking (Pending)

SmartWireless X40 Controller
Alarm & Control System

Description

Detcon Model X40 is available with a wireless option. See the data sheet and instruction manual links on the left. Click here for more.

SmartWireless MCX-32 Controller
Alarm & Control System

Description

Detcon Model MCX-32 64 chanel controller is available with a wireless option. See the data sheet and instruction manual links on the left. Click here for more.

SmartWireless® Audio Visual Alarm Station

Features

• Up to 6 hours continuous operation in full alarm
• Up to 6 months continuous operation - no alarm
• Smart rechargeable battery packs with integral safety circuitry
• Optional solar charging panel

Description

Detcon SmartWireless® audio-visual alarm stations are easily and economically deployable in both permanent and temporary installations. These devices feature a battery powered audio visual alarm station designed as a wireless cordless system component. They are rated for Class 1; Division 1, Groups C, D hazardous areas and Class I; Division 2, Groups A, B, C, D.

Power is provided by a Detcon designed smart battery pack eliminating the requirement for power or signal cables (line power option available). The standard rechargeable battery packs are capable of delivering enough energy for 4-6 hours of continuous operation in a full alarm condition or 5-6 months (no alarm condition). The standard rechargeable battery pack continuously reports its charge level and estimated operating time before recharge or replacement is required. An optional solar charging panel can be used to extend operating time and maintain full battery charge levels for virtually any application. An optional disposable "D" cell battery pack is capable of delivers even longer operating times.

Alarm relay options include adjustable set points and latching/non-latching relays. The audible alarm can be configured for acknowledge/silence via operator interface at the SmartWireless CXT Controller.

Battery Options for Wireless Applications

Features

- High Energy Lithium Ion Technology
- Rechargeable & Replaceable/Disposable Options
- Industry Leading Run Times

Description

High energy battery packs are a necessary component in the application of any SmartWireless® gas detection system. Detcon provides several options when selecting the optimal battery back for your application. These options include rechargeable packs as well as packs with disposable/replaceable batteries. Both use lithium ion technology and are available in low and high capacity versions. While others may specify battery run times of weeks or even days, Detcon battery packs typically provide continuous run times for months at a time. Paired with a solar charging option Detcon SmartWireless® system components can provide indefinite run times. The battery packs are packaged as a plug in module that uses a mechanical guide and large surface area gold plated mating connectors. A smaller compact version is packaged with a twist-lock design. Both are housed and secured inside a Division 1 enclosure. Optional solar charging panels are available in Class I, Div 1 and Class I, Div 2 packages. Integrated safety circuitry continuously monitors each battery pack. If the discharge current exceeds the battery rating the output will be turned off until reset. If the voltage drops below operating levels the output will be turned off until the battery is recharged (rechargeables) or replaced (replaceables). Rechargeable packs are also protected from over voltage during charging.

Model RXT-300/RXT-320 SmartWireless® Transceiver

Features

- Universally Acceptable Frequency 2.4 GHz
- Network Wide Control Processing Capability
- Low Power Requirement
- 1-2KM Line-of-Sight Range (with external directional antenna)
- Robust Mesh Network Topology
- Network Capacity up to 32 Devices
- Flexible I/O options

Description

Detcon Model Series RXT-300 and 320 SmartWireless® transceivers are ideal for transmitting signal data in a wide range of industrial detection and alarm system applications. Both transceivers operate at a universally accepted frequency of 2.4 GHZ and are able to transmit signal data from 4-20 mA DC or serial MODBUS inputs. Wireless installations eliminate the cost of point-to-point wiring and can be as simple as a single field device communicating with a controller, or as complex as 32 field device nodes forming a seamless network with a controller, remote display, and audio/visual alarm stations. Sixteen nodes can be installed in close proximity to one another creating a plant wide network of up to 512 field devices. Wireless network integrity, security, and reliability are accomplished using direct sequence spread spectrum wireless mesh technology. Every device in the network is capable of functioning as a router and repeater for all other devices in the network. This means that subscribers can "hop" through neighboring devices to communicate with each other, thus widening network access points. This innovative technology creates a robust network that automatically routes around congestion and RF line-of-sight obstacles. Throughput improves as device density increases. While the Model RXT-320 transceiver encompasses all these advanced mesh-networking capabilities, the Model RXT-300 is designed with an additional and unique innovation in self-healing mesh networking. Unlike conventional mesh networks, the Model RXT-300's processing power is shared among all network devices. The RXT-300 is able to automatically select another transceiver in the network to take over as the master device, should the designated master transceiver fail. As a result, the RXT-300 does not depend on a single controller to maintain network operation. This feature significantly enhances the redundancy and overall safety level of the wireless system.

SmartWireless® Configuration Tool

Features

- 10.1" Touch Panel LCD
- Interfaces with USB Wireless Radio
- Battery Operates up to 8 Hours
- 2 Hour Charge Time

Description

The RXT Wireless Configuration Tool is a custom device designed to configure Detcon's RXT-300 and RXT-320 SmartWireless™ transceivers. It is used to set the RF Channel, Network ID and to configure RXT-300 wireless networks.

SmartWireless®
Model SW-X40-32 Master Control Panel

Features

- Compatible with Model RXT-320 Tranceivers
- 32 channel capacity panels
- Real time 4 line 40 character LCD
- Field device status and location tag

- Alarm condition LEDs
- Non-intrusive operator interface

Description

Detcon SmartWireless® gas detection systems include an optional 32 channel Master Control Panel that provides operator interface to the network and real time status display of all network devices. The Master Control Panel is compatible with Detcon's Model RXT-320 Transceivers. Command functions include setting of alarm levels, number of active channels, gas type, range, alarm reset, alarm acknowledge, alarm test and radio silence. In normal operation the Master Control Panel provides real time display of gas concentrations or the status of other field devices; Smart 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 panel screen. The wireless control panel is rated for Class 1; Division 1, Groups C, D and 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 that extend operating time for 1-2 months before recharge is required. Like all other Detcon SmartWireless® system components, power is provided by Detcon's Smart Battery Pack. An optional solar charging panel can be used to extend operating time for virtually any application.

Model Series SPS-00W-xxx Solar Power

- Model SPS-01W-DV1 - 1.5 Watts
- Model SPS-10W-DV2 - 10 Watts
- Model SPS-20W-DV2 - 20 Watts
- Model SPS-40W-DV2 - 40 Watts

Description

Detcon SmartWireless® devices can use line or battery power. Battery power runtimes can be extended indefinitely by using one of several solar power options.

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