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.

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
- 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
Model SW-X40-32 ▪ SmartWireless® Master Control Panel

System Specifications
Capacity
Up to 31 Input Devices

Display
1 1/4" x 6" Backlit LCD

Electrical Classification
Class I; Division 1; Groups D, C
Class I; Division 2; Groups A, B, C, D

Safety Approvals

- CE Marking (pending)
- cETLus Class I, Division 1, Groups C, D (transceiver only)
- ATEX II 2 G Ex d IIB T6 + H2 (pending)

Warranty
One Year

Environmental Specifications
Operating Temperature Range
-40°C to +75°C; -40°F to +167°F

Mechanical Specifications
Dimensions
15.5"H x 25"W x 7.25"D; 393mmH x 635mmW x 184mmD

Weight
22 lbs/9.97 kilograms

Order Guide
Part Number Description
957-X32000-000-4_0 Model SW-X40-32, 32 Channel SmartWireless® Master Control Panel in cast aluminum enclosure: Class 1; Division 1; Groups C, D with RXT-320 Transceiver, power option and pipe mounting plate.

To complete the part number please select from the power option below.
X X X - X X X X X X - X X X - X _

Position “14” power selection: ____________________________
5 - Battery pack
6 - Battery pack with alarm reset switch
7 - VAC line power to DC power supply
8 - 12-24VDC supplied by customer
9 - VAC line power to DC power supply w/ stand-by battery

Electrical Specifications
Power Input
11.5-30 VDC

Power Consumption
Nominal: 0.15 Watt @ 11.5VDC
Maximum: 1.2 Watts @11.5VDC (Includes display w/backlight and 4 LEDs active)

Performance
Transmit Power Output: 18dBm

Range Limits
Indoor/ No Line of Sight: 1,000ft
Outdoor RF Line of Sight (with standard antenna): 1 Mile
Interface Data Rate: 9,600bps
Throughput Data Rate: 19,200bps
RF Data Rate: 250,000bps
Transceiver Sensitivity: -102dBm

Networking and Security
Frequency: 2.4GHz ISM
Spread Spectrum: DSSS (Direct Sequence Spread Spectrum)
Modulation: QPSK
Supported Network Topologies: Mesh, Point-to-Point
Channel Capacity: 32
Encryption: AES-128 Available

Antenna
Connector: Internal F-Type Antenna
Impedance: N/A

I/O Protection
Over-voltage, Miswiring, EMI/RFI Immunity

Specifications subject to change without notice

Accessories
Solar Charging Panel

Environment Specifications

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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