



# Model SW-HMI-32

SmartWireless® HMI Panel

GAS DETECTION SENSORS ■ INTEGRATED CONTROL SYSTEMS ■ SMARTWIRELESS® ■ PIPELINE ANALYZERS ■ ALARMS

## Description

Detcon SmartWireless® gas detection systems include an optional 32 channel HMI module that provides operator interface to the network and real time status display of all network devices. The HMI is compatible with Detcon's Model RXT-300 Transceivers. Operator interface is through the HMI panel via a small programming magnet. Command functions include alarm reset, alarm acknowledge, alarm test and radio silence. In normal operation the HMI 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 HMI screen.



The wireless HMI 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-300 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

## 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

cETLus Class I, Division 1, Groups C, D (transceiver only)

ATEX II 2 G Ex d [ib] ib IIB T6 + H2 T4 (pending)

CE Marking (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

## 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: 0-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

## Order Guide

### Part Number

957-827280-032-2\_0

### Description

Model SW-HMI-32, 32 Channel SmartWireless® HMI panel in cast aluminum enclosure: Class 1; Division 1; Groups C, D with RXT-300 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 \_ 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

Houston ■

Odessa ■

Shanghai ■

Dammam ■

Del Carmen ■

Europe



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