



Model RD-64X

Remote Display

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

Description

Detcon Model RD-64X is a read-only remote display unit designed to monitor real time status of a wide range of gas detection sensors and controllers.

The system is configurable for up to 64 channels and communicates using Modbus™ RS-485 RTU protocol. The RD-64X features a non-intrusive magnetic interface and a backlit LCD that simplifies operation and configuration. The remote display unit is field configurable and operates as a Modbus™ Master. During normal operation the RD-64X displays real-time status (i.e., channel number, gas type, unit of measure, and gas concentration) for up to eight field devices simultaneously. The unit continuously auto cycles through each of the active channel screens for constant, up-to-date readings.

The RD-64X provides Alarm/Fault status indication on front panel LEDs. Alarm relay outputs can be configured as Latching/Non-latching, Energized/De-energized and Silenceable/Non-silenceable on each unit using one Detcon RL-4 module.

Among the system's unique features is a wireless option that can be used with Detcon's RXT-320 SmartWireless® transceivers. Enclosure options include NEMA 4X (Model RD-64X-N4X) powered by either 110/220VAC or 24 VDC using an internal power supply and NEMA 7 (Model RD-64X-N7) powered by 11.5-30VDC using an external voltage source. Model RD-64X-N4X includes an external Reset/Acknowledge switch as standard (optional on Model RD-64X-N7).

Model RD-64X-N4X



Model RD-64X-N7



Features

- ▶ Real Time Data Display
- ▶ Up to 64 Channel Capacity
- ▶ Backlit LCD Screen Display
- ▶ Modbus™ RS-485 RTU communications
- ▶ Easy Intuitive Field Configuration
- ▶ External Reset/Acknowledge Switch
- ▶ Extensive Event Data Logging
- ▶ SmartWireless® Capable

Applications

- ▶ Oil and Gas Drilling Rigs
- ▶ Oil and Gas Production Sites
- ▶ Offshore Production Platforms
- ▶ Wastewater Treatment Plants
- ▶ Food and Beverage Processing
- ▶ Pulp and Paper Mills
- ▶ Refining and Petrochemical

System Specifications

System Capacity

Up to 64 input channels

Indicators

1 1/8" by 5 3/4" backlit LCD
Alarm status LEDs

System Input

RS-485 Modbus™ RTU

Outputs

4 Relay Outputs (using Detcon RL4 module)
Form C single pole double throw contacts
5 amp @ 30 VDC, 250 VAC
< 3 watts @ 24 VDC

Ingress Protection

IP66

Warranty

One Year

Environmental Specifications

Operating Temperature Range

-4°F to +158°F, -20°C to +70°C

Storage Temperature Range

-40°F to +185°F, -40°C to +85°C

Operating Humidity Range

0-99% RH non-condensing

Specifications subject to change without notice

Mechanical Specifications

Dimensions

Model RD-64X-N4X: 11.75"W x 10"H x 7"D
(299mmW x 254mmH x 178mmD)
Model RD-64X-N7: 11"W x 9.15"H x 2.75"D
(280mmW x 233mmH x 70mmD)

Weight

Model RD-64X-N4X: 8 lbs (3.62kg)
Model RD-64X-N7: 10 lbs (4.54kg)

Electrical Specifications

Power Input

Model RD-64X-N4X
100-240VAC, 45-65Hz
20-30VDC
Model RD-64X-N7
11.5-30VDC
100-240VAC optional

Power Consumption

Less than 0.5W (with alarm LEDs and backlight inactive)
(RL-4 Relay Module power consumption not included)

RFI/EMI Protection

Complies with EN61000

Electrical Classification

Model RD-64X-N4X
NEMA 4X Corrosion resistant weatherproof
Model RD-64X-N7
NEMA 7 Class I; Division 1, Group C, D

Remote Reset

Model RD-64X-N4X - Standard
Model RD-64X-N7 - Optional with 2 conductor interconnect to main control system

Order Guide

PN 954-XRD640-110 Model RD-64X-N4X, wall mount ABS weather proof enclosure with 110/220 VAC, 24 VDC power supply
PN 954-XRD640-024 Model RD-64X-N4X, wall mount ABS weather proof enclosure requires external 24 VDC power supply
PN 957-XRD640-110 Model RD-64X-N7, division 1 weatherproof enclosure with 110/220 VAC, 24 VDC power supply*
PN 957-XRD640-024 Model RD-64X-N7, division 1 weatherproof enclosure requires external 24 VDC power supply*

*Insert a "1" in position 9 to include the remote reset switch

RL-4 Relay Modules are sold separately.

Houston



Odessa



Shanghai



Dammam



Del Carmen



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