D-tect SYSTEMS

A DIVISION OF LUDLUM MEASUREMENTS, INC.

Rad-DX
Rugged Enclosure

NEMA Wireless Mesh Networked Radiation Detector

FEATURES

D-tect SensorNet (mesh network) equipped - automatic connections between all Rad-DXs within 1000 m

Integrates with a local network via encrypted Wi-Fi or Ethernet

Control and monitor on a smartphone, tablet or PC

Two high gain antennas for added signal strength

Rails with mounting holes for easy installation

Integrated fan for improved cooling capability

Environment: IP NEMA Type 3R, 3RX

Radiation detection in less than 1 second

Sensitive Dose Rate and Total Dose measurement and recording

RADIATION DETECTION

Rad-DX products are part of D-tect System's growing line of radiation detection products that can communicate with one another using a mesh network as well as Wi-Fi and Ethernet. Combined with this flexible communication, a sensitive scintillation detector allows the Rad-DX to detect even faint sources of radiation within 1 second.

MESH COMMUNICATION

The Rad-DX operates on the new D-tect SensorNet - an automatic communication network that allows users to monitor a full network of Rad-DXs as long as they are in range of a single Rad-DX system! The Rad-DX units will automatically form an intelligent, self-healing mesh network, allowing them to be constantly connected to each other as well as to the user network.

INCLUDED UPGRADES

This enclosure includes two higher gain antennas, a longer lasting backup battery, and a cooling fan. Mounting holes are positioned in strategic locations for easy installation. Included is a metal band that allows for installment on curved surfaces such as power poles.

Rad-DX

SPECIFICATIONS

Radiation Detector	Large cesium iodide scintillation (CsI) crystal
Communication	D-tect SensorNet, Wi-Fi, Ethernet, USB
Power	120/240V AC, 50/60Hz
Detection Speed	Less than 1 second
Energy Range	59 keV - 2 MeV
Battery Back-Up	Lithium Ion
Dose Rate Range	1 - 100 mrem/hr (1 mSv/hr)
Dose Rate Linear Error	+/-10%
Units	mrem/hr, μSv/hr, cps
Dimensions - NEMA	15.32" x 11.32" x 5.6" (15.2 cm x 15 cm x 4.4 cm)
Weight	NEMA Enclosed version: 10.1 lbs (4.6 kg) Standard version: 0.65 lb (0.3 kg)*
Environment	IP NEMA Type 3R, 3RX rated for indoor and outdoor operation

Standard Rad-DX*

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (http://www.openssl.org/)

CONTROL & MONITOR WITH A SMARTPHONE/TABLET/PC

Each Rad-DX can be controlled and monitored by a PC on the network or across the internet on any Tablet or remote PC. 128-bit encryption protected. Monitoring can be real-time or past event logs can be reviewed.

SYSTEM CONFIGURATION OPTIONS

The DX View is a PC application used to monitor and configure Rad-DX detectors. Multiple detectors can be configured as long as one detector is connected to the PC directly and the other detectors are configured to communicate via the mesh network.

The DX Dashboard is a web server application. This software can also be used to monitor and control a Rad-DX network. It runs on either the D-tect Cloud server or the DX Network Assistant (if installed at your facility). Using the DX Dashboard, you can access your Rad-DX network using any web-enabled device (smartphones, tablets, PCs).

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