RadiantReader

Real-time Wireless Communication

The RadiantReader acts as a hub to connect wireless gas monitors to a PC running ProRAE Guardian for real-time data insight and management. RadiantReader can communicate with up to 100 remote monitors directly. ProRAE Guardian supports up to five RadiantReaders to give a total capacity of 500 monitors.

The RadiantReader can connect directly with a PC via its COM port, or one or more RadiantReaders can be networked through a TCP/IP connection via Ethernet to push sensor data to ProRAE Guardian or third party control system through MODBUS TCP/IP.

A networked setup allows visibility of 500 monitors on other PCs running ProRAE Guardian.
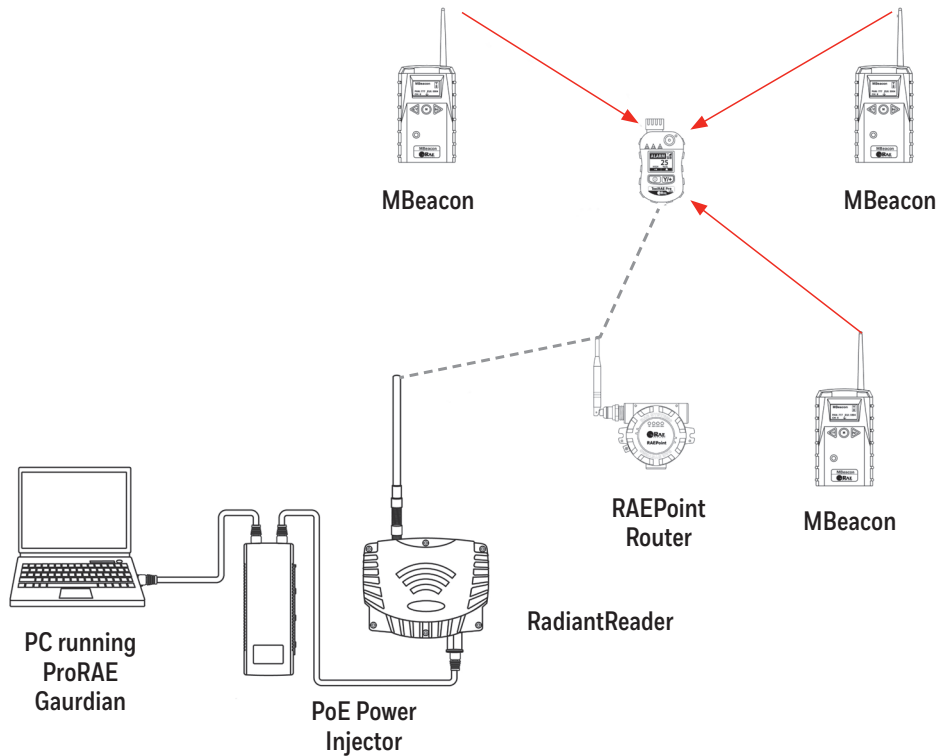
Technical Specifications

SPECIFICATIONS	
SIZE	21.9 x 21.5 x 8.6 cm without antenna
WEIGHT	2.8kg
OPERATING RANGE	300 m, line of sight
MAXIMUM MONITORS SUPPORTED	Up to 100
DIGITAL INTERFACES	RS-232; RS485; Ethernet RJ45 (802.3)
POWER	12-28VDC 25W or PoE 25W@48V
BACKUP BATTERY	7.2V 10Ah
OPERATING TEMPERATURE	-20° C to +50° C
STORAGE TEMPERATURE	-40° C to +60° C
HUMIDITY	10% to 95% non-condensing (continuous)
ENVIRONMENTAL RATINGS (IP RATINGS)	IP-65
RADIO TYPE RM900A	
WIRELESS FREQUENCY & APPROVALS	ISM license-free band 802.15.4 Sub1Ghz FCC Part 15, CE R&TTE. Contact Honeywell for approvals in other countries
RF OUTPUT POWER	Up to 20dBm
RF RECEIVE SENSITIVITY	-105dBm
RADIO TYPE RM2400	
WIRELESS FREQUENCY & APPROVALS	ISM license-free band ISM 802.15.4 2.4Ghz FCC Part 15, CE R&TTE. Contact Honeywell for approvals in other countries
RF OUTPUT POWER	Up to 20dBm
RF RECEIVE SENSITIVITY	-104dBm

FEATURES & BENEFITS

- The RadiantReader receives data wirelessly from remote monitors and pushes data to ProRAE Guardian software running on a PC

- The RadiantReader can push data directly to a PC via RS-232 or to a remote PC via Ethernet by proprietary protocol or MODBUS

- The RadiantReader is designed to be located in, indoor or outdoor locations

- An optional outdoor antenna with a 30' (10 meters) cable can be used to extend its use to outdoor locations when indoor mounting is desired

- Supports up to 100 monitors

RadiantReader Diagram

MBeacon

MBeacon

MBeacon

RAEPoint Router

RadiantReader

PC running ProRAE Gaurdian

PoE Power Injector

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