

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.



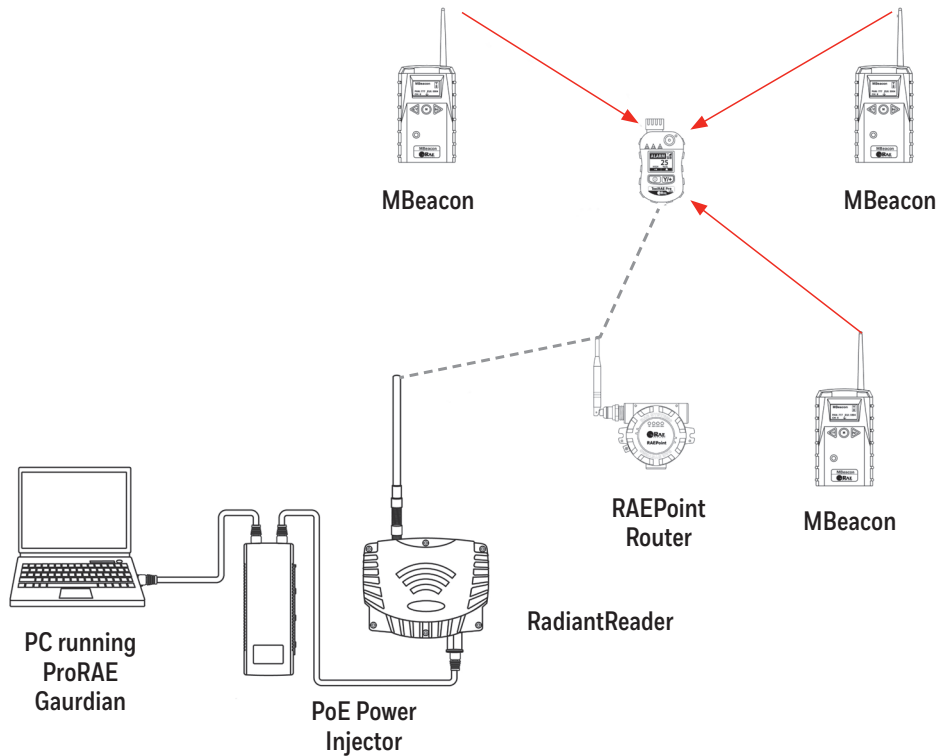
Technical Specifications

| 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



For more information

www.honeywellanalytics.com
www.raesystems.com

Europe, Middle East, Africa

Life Safety Distribution GmbH
Javastrasse 2
8604 Hegnau
Switzerland
Tel: +41 (0)44 943 4300
Fax: +41 (0)44 943 4398
gasdetection@honeywell.com
Customer Service:
Tel: 00800 333 222 44 (Freephone number)
Tel: +41 44 943 4380 (Alternative number)
Fax: 00800 333 222 55
Middle East Tel: +971 4 450 5800 (Fixed Gas Detection)
Middle East Tel: +971 4 450 5852 (Portable Gas Detection)

Americas

Honeywell Analytics Distribution Inc.
405 Barclay Blvd.
Lincolnshire, IL 60069
USA
Tel: +1 847 955 8200
Toll free: +1 800 538 0363
Fax: +1 847 955 8210
detectgas@honeywell.com

RAE Systems by Honeywell
Phone: 408.952.8200
Toll Free: 1.888.723.4800
Fax: 408.952.8480

Asia Pacific

Honeywell Analytics Asia Pacific
7F SangAm IT Tower
434, Worldcupbuk-ro, Mapo-gu,
Seoul 03922,
Korea
Tel: +82 (0) 2 6909 0300
Fax: +82 (0) 2 2025 0328
India Tel: +91 124 4752700
analytics.ap@honeywell.com

Technical Services

EMEA: HAexpert@honeywell.com
US: ha.us.service@honeywell.com
AP: ha.ap.service@honeywell.com

www.honeywell.com

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