

# REL-iON™ Monitoring System



## SensorGateway (Base Unit)

P/N: 31-BASE-WIRED

Effective: February 2026  
K-31-510 Rev. AA

### Description

The 31-BASE-WIRED SensorGateway is a stand-alone, IP-based monitoring device with built-in alerting features, serving as the foundational unit for the REL-iON system of sensors.

The 31-BASE-WIRED unit incorporates various built-in features, including an onboard temperature sensor, a secure HTTPS-enabled web server, and a fully responsive web interface accessible on desktops, tablets, or smartphones. This Base Unit seamlessly supports all sensors, except for Gas and Thermography sensors, enabling real-time environmental and infrastructure monitoring for comprehensive facility management.

### Key Features

- Onboard temperature sensor
- Uses AC power adapter (P/N 31-BASE-PWR) or USB power adapter (31-BASE-PWR-USB).
- Built-in web server
- DHCP or static IP
- 0U rack, DIN rail mountable
- No Internet connectivity required to operate
- Stand-alone device
- Fully responsive web interface for desktop, tablet, or smart phone
- User configurable firewall for enhanced security
- Steel enclosure, industrial grade

### SIMPLE AS 1-2-3:

#1 Select a sensor.

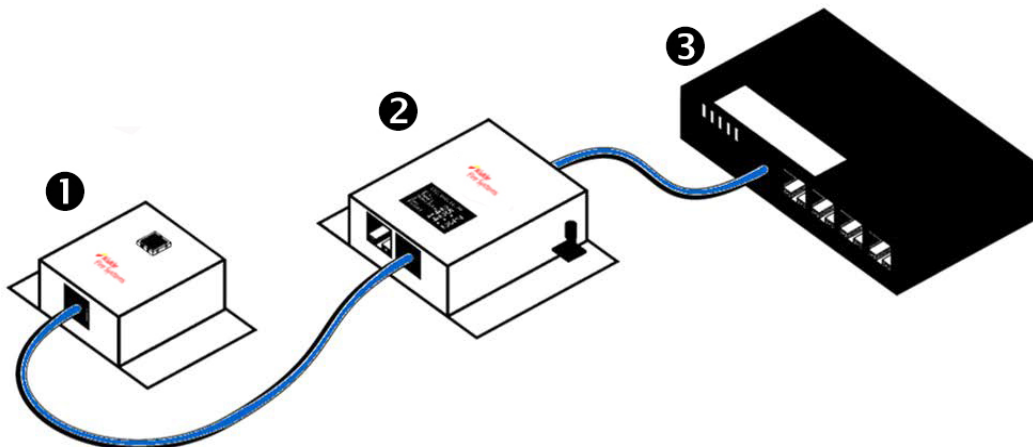
#2 Plug it into the base unit.

#3 Connect the base unit to a switch.



### Specifications

Latest Firmware	Version 9.3.1
TCP/IP	IPv4 at 10/100 Mbps.
Power Source	PoE: IEEE 802.3af or 31-BASE-PWR (Optional AC power adapter) or 31-BASE-PWR-USB (USB power adapter)
Power Usage	684mW (without sensors attached)
Network Data Transfer	SNMP GET (50 - 130 bytes), SNMP Trap (143 - 280 bytes)
Built-in Features	Web server (JSON and XML), SNMP v1, v2 and v3 (MD5/AES), Modbus TCP
Built-in alerting options	SNMP Traps
External sensor probes:	2 sensor probes through straight RJ45 CAT6/7 cable with max distance of 100m or 330 ft.
Max distance to switch:	CAT6/CAT7 up to 100m / 300ft.
Temperature Resolution:	0.1°C / 0.18°F
Temperature Reading:	-55°C to +125°C (-67°F to +257°F)
Temperature Accuracy:	± 1°C (± 2°F) over 0°C to +75°C
Operating temperature range	0°C to +75° C (32°F to +167°F)
Humidity (operating and storage)	< 90% rH (non-condensing)
Dimensions	97 mm (3.8") x 88 mm (3.4") x 21 mm (0.8")
Weight	0.21 kg (0.42 lbs)

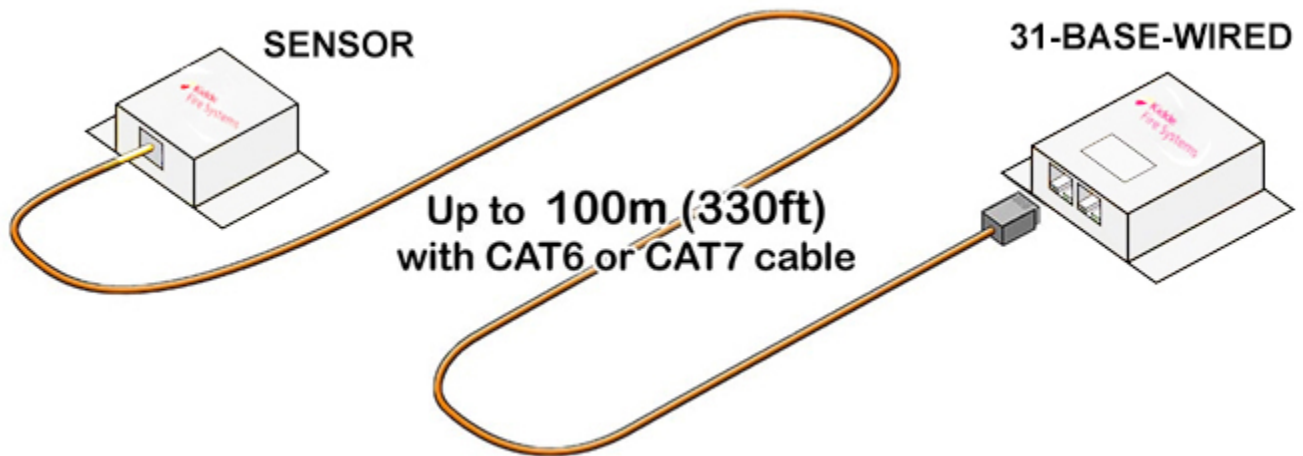


### Connecting Sensors To The 31-BASE-WIRED

Each sensor connects to the base unit using a standard network cable. The network cable transmits data and power between the base unit and the sensor.

- The maximum distance between a sensor and the base unit is up to 100 m/330 ft. when using a CAT6/7 cable and is subject to cable quality and interference.
- This distance is limited to 10 m/33 ft. when using a CAT5 cable.
- The RJ45-to-RJ45 cable goes from the external sensor probe into the bottom of the base unit using the RJ45 connector labeled **Sensor1** or **Sensor2**.

The connection between sensor and base unit is not a network connection but is a proprietary protocol with power. The use of standard RJ45 cables makes it easy for users to deploy in a wide range of applications.



This literature is provided for informational purposes only. Kidde-Fenwal, LLC believes this data to be accurate, but it is published and presented without any guarantee or warranty whatsoever. Kidde-Fenwal, LLC assumes no responsibility for the product's suitability for a particular application. The product must be properly applied to work correctly. If you need more information on this product, or if you have a particular problem or question, contact KIDDE-FENWAL, LLC, Ashland, MA 01721.

Kidde-Fenwal, LLC  
400 Main Street  
Ashland, MA 01721, USA

KFI U.K. Limited  
Station Road,  
Bentham, Lancaster, LA2 7NA, UK

Kiddel Technologies  
Survey No. 28/2, 44/2 and 45  
Rasyani, Dandapta Road  
Raigad Maharashtra-410207, India

 **KiddeFenwal**

EXPORT INFORMATION (USA)  
Jurisdiction: EAR  
Classification: EAR99

Kidde Fire Systems, Kidde Fire Protection and Fenwal Controls branded products are created exclusively by Kidde-Fenwal, LLC. All other trademarks are the property of their respective owners.

This document contains technical data subject to the EAR.

[kiddefenwal.com](http://kiddefenwal.com) | 508.881.2000

2026 © Kidde-Fenwal, LLC | All Rights Reserved

P/N: K-31-510 Rev. AA