

Scigiene Wireless Monitoring Systems

By: Douglas Wright, President

Scigiene offer a wide range of wireless system and sensor option to meet almost any need. From our low cost BASIC sensor to our IP67 waterproof industrial sensor to our newest LORA system for the ultimate in long range wireless transmission.

[Scigiene Wireless Systems](#) use flexible and easy to use 900 MHz RF sensors; Receivers, Controllers and Cloud based software to collect temperature, humidity and a multitude of other signal types.

The data can be viewed in tables & graphs, on your computer from [receivers](#) connected directly via Ethernet Gateways to P.C. or [cloud based](#) databases to give you the ultimate in flexibility. This is ideal for compliance monitoring as the data is collected automatically, for easy reports and alarming.

All Scigiene wireless sensors are battery powered varying from tiny compact to industrial grade fully IP67 waterproof models. The sensors can be easily installed and or moved for easy servicing and yearly recertification.

No room or facility is too big as our sensors have excellent ranges with our new [LORA sensors](#) giving the ultimate ranges.

Transmission ranges of over 1 mile are now possible.

Features:

- Advanced Online sensor monitoring
- Advanced sensor configuration
- Allows for sensor data export, history reports and visual charts
- Provides history of sent alerts
- Sensor history storage
- Accessible anywhere via internet
- Sends alerts and notifications to multiple recipients via SMS Text & Email
- On screen alerts and notifications
- Visual tool for sensor mapping
- N.I.S.T. traceable certification of Temperature and Humidity sensors available

SOFTWARE

[Scigiene Premiere](#) is a secure cloud based monitoring and notification software dedicated to the [Scigiene Wireless sensors](#) and [Gateways](#). The system allows for complete configuration and customization at a sensor, local network or client wide level. The software allows for management of sensor data as well as the ability to setup alerts via SMS text or email to one or many recipients. It is also accessible from all internet enabled devices including Smart Phones. The [software](#) also wireless sensors and includes an advanced software features set, all for a minimum annual cost.

[Wireless Scigiene Premier Cloud Based Software](#)



SCIGIENE WIRELESS SENSORS

Our GEN2 and LORA sensor have internal memories to log data to ensure data in the event of a power failure. Sensors have programmable transmit intervals to give you flexibility to increase signal collection or increase life. Sensors available for a wide range of parameters
*Call us for consultation on best options for you.
User defined thresholds for alerts and notifications

BASIC SERIES

- Range of 1,200+ feet through 12+ walls *
- Frequency-Hopping Spread Spectrum (FHSS)
- Improved interference immunity
- Improved power management for > battery life
- All Gen 2 sensors now have up to 3200 readings:
- Over-the-air updates (future proof)
- Mounting Tape & Mounting screws included
- ABS Enclosure
- Operating Temperature: -7° to +60°C (+20° to 140°F)
- Accurate to +/- 1°C (1.8°F). Increased accuracy if certified and calibrated +/- 0.25C
- Dimensions: 1.775" x 1.040" x 0.785"

PROFESSIONAL SERIES

- Superior Wireless Range 1,000+ ft. non-line-of-sight through 12-14 walls.
- Long Battery Life 10+ years powered by 2 AA batteries.
- Encrypt-RF Security Integrated bank level security
- All Gen 2 sensors now have up to 3200 readings:
- Future Proof Over-the-air updates allow products to be updated remotely.
- The software also has multilevel passwords and the highest-level encryption to meet 21CFR part 11 compliance
- User replaceable AA 1.5 V Batteries
- Max Operating Temperature using AA Alkaline Batteries: -18°C to +55°C (0°F to +130°F)
- Max Operating Temperature using AA Lithium Batteries: -40°C to +85°C (-40°F to +185°F)
- Accurate to +/- 1°C (1.8°F). Increased accuracy if certified and calibrated +/- 0.25C
- Dimensions: 4.375" x 2.470" x 1.111"
- ABS Enclosure

INDUSTRIAL SERIES

- Wireless range of 1,200+ feet through 12+ walls *
- Frequency-Hopping Spread Spectrum
- Improved interference immunity
- Improved power mgmt. > battery life
- Gen 2 sensors have up to 3200 readings:
- Over-the-air updates (future proof)
- Security Encrypt-RF® (256-bit key exchange and AES-128 CTR)
- Antenna: 3dBi RP SMA (Optional High gain 5dBi antenna – increased range 100 ft

- Single AA, 2500mAH, 3.6V Lithium Battery
- Enclosure: NEMA 1, 2, 4, 4x, 12 and 13 rated, sealed and weather proof
- Max Operating Temperature: -40° to 85°C (-40° to 185°F)
- Dimensions: 3.701" x 2.316" x 1.378
- Accurate to +/- 1°C (1.8°F). Increased accuracy if certified and calibrated +/- 0.25C

LORA SERIES

- Memory/Storage 32k per channel
- Temperature Range 29°C to +72°C / -20°F to +161°F
- Accuracy ±0.1°C at 0° to 10°C, ±1.0°C at extremes /±0.3°F at 32° to 50°F, ±1.8°F at extremes
- Size 105mm x 50mm x 26mm / 4.13 in. x 1.96 in. x 1.02 in.
- LCD screen, 4.4cm(l) x 3.5cm(w)
- Measurement Intervals Programmable from 2 seconds
- Transmission time Interval Programmable from 1 minute
- Alarm Notifications Alarm condition on-screen, via Email
- Computer interface USB
- Power source ER14505 x 3 (3.6V/7.2Ah) 3 years battery life with one data transmission per day and continuous measurement.
- Range Up to 1.500m

RECEIVERS

Our USB and Ethernet Receivers are designed to receive and decode packet data from all of our Wireless Sensors. Depending on the model selected the receivers can be connected directly to your PC's USB port or via an IP connection and the data is then downloaded to a Cloud database or your P.C. Call today to discuss your options.

For more information on our systems and detailed specifications, please visit www.scigiene.com or contact us at 416-261-4865



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