



SENS'RF - LoRaWAN

Webdyn offers a line of Sens'RF LoRaWAN modules that make it possible to acquire local data (pulses, RMI meters, temperature, hygrometry, CO₂, etc.), and to send it to a data server by radio frequency over the LoRaWAN server.

Hygro % / T°C



Bar



Wh/m³/TIC



PPM



W/m²



0-10V / 4-20mA



INSTALLATION

- Ready to use with a factory pre-configuration for quick and easy implementation, or locally configurable via USB port and remotely via the LoRaWAN server
- Activation/deactivation by the passage of a magnet

OPERATION

- Configuration of the data transmission frequency (about 10 mins)
- Configuration of the LoRaWAN APPEUI/APPKey keys
- ...

STRENGTHS

- The intrinsic bi-directionality of the LoRaWAN network: “Over the air” activation and self-adaptation to the data flow (between 0.3 and 5 kbps) depending on the network
- Autonomy of up to 10 years on a battery

APPLICATIONS

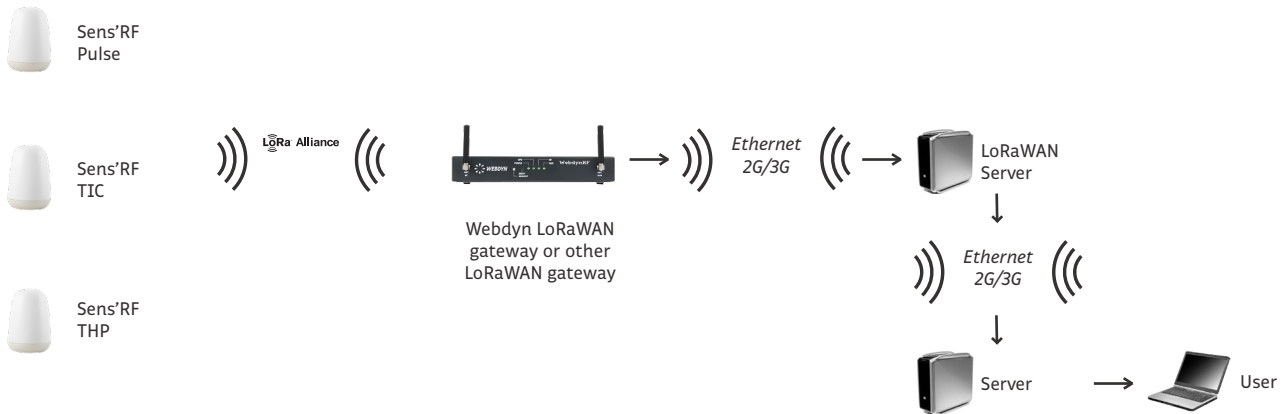
- Building energy efficiency
- Comfort
- Health

BENEFITS

- Optimization and adaptation of the speed and strengths of data transmission
- Long radio range
- Good resistance to background noise making it possible to increase the radio range

ARCHITECTURE

All Sens'RF sensors are compliant with private or public LoRaWAN networks. For private networks, users can use the WebdynRF LoRaWAN gateway.



TECHNICAL SPECIFICATIONS

- Power supply: type C battery or external 6-24V DC
- Dimensions: 100x70x70mm Compact plastic box and design
- Positioning: wall-mounted, Din-Rail or tabletop
- Radio interference:
 - Frequency: 868Mhz
 - Protocol: LoRaWAN 1.0 Class A
 - Power: +14dBm (25mw)
 - Sensivity: up to -136dBm

REFERENCES

Reference	Name	Specifications
WG0307-D01	SENS'RF LoRaWAN PULSE	Pulse input (open collector type) Min pulse duration: 20ms Min time between two pulses: 50 µs
WG0307-D02	SENS'RF LoRaWAN THP	Temperature: -40°C ~ 85°C (resolution 0.01°C) Hygrometry: 0-100% (resolution 0.04%) Pressure: from 10 to 2000 mbar (resolution 0.016 mbar)
WG0307-D03	SENS'RF LoRaWAN TIC	Mode: standard and history Signals: amplitude modulation, RS232 and TTL Meters: blue single phased, blue three phased, yellow, ICE 2Q, ICE 4Q, PME/PMI, Saphir, Linky



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