NUVASAFE

PYRUS ALARM TRANSMITER SERIES



- The only triple path alarm transmitter in the market, specially designed for **FIRE** control panels, also can work with Intrusion alarms.
- **Anti-jamming** by means of **LORA** and **NB-IOT**
- **Certified** alarm trasmitter at grade 3
- DP4 as per EN50136-2
- X type as EN50131-10 , **IP65** housing.
- **EN54-21** certification on progress.
- Connection with Fire alarm control panel by means of **RS485** / **RS232** depending on models.
- **Bidirectional** with alarm control panel by means of Virtual comport
- State of the art **cloud system**, for configuration and monitoring of the devices.
- **Global VPN SIMCARD** included
- extended **IOT** control, datalogging and monitoring functions, unique in the market

Models

- **PYRUS-GLW:** Triple path ATS with WIFI + GPRS + LORA.
- **PYRUS-GL** : Dual path ATS with GPRS + LORA.
- **PYRUS-TL** : Dual path ATS with GPRS + NB-IOT + LTE-M1 + LORA.

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Technical features

- 3 input NO / NC / EOL.
- Two open drain outputs
- 6 ... 30Vdc input voltage.
- **Very low consumption: 10mA @ 24V**
- **Optional internal battery backup.**
- Tripe technology modem, with EGPRS, NB-IOT and LTE-CAT-M1
- Modem WIFI 802.11g
- **LORA** radio transceiver with NIOT-MESH and LORAWAN.
  - barnds 868-870 Mhz.
    - Nominal : 869.525Mhz / 17dBm
  - Frecuency hopping.

Bi-directional communications.

- The device can stablish bi-directional communication with the associated control panel by means of Virtual Comport simulation (VCOM) the integrated and tested control panels are:
- VCOM: DETNOV, NOTIFIER

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WIRELESS RADIO

where available there is option for LORAWAN low power radio tracker.

INNOVATIVE FEATURES:

In combination with other devices of Nuvathings ecosystem, a full range of IOT and industry 4.0 system can be achieved with options for:

- BLE asset tracking
- EDGE alarm triggers processed in the device.
- GPS machinnery trackers.
- Cold chain monitoring
- Security and access control.
- Custom devices available on request.

For more information on any of our products or services please visit us on the Web at:

www.nuvasafe.com

www.nuvathings.com

or contact us at:

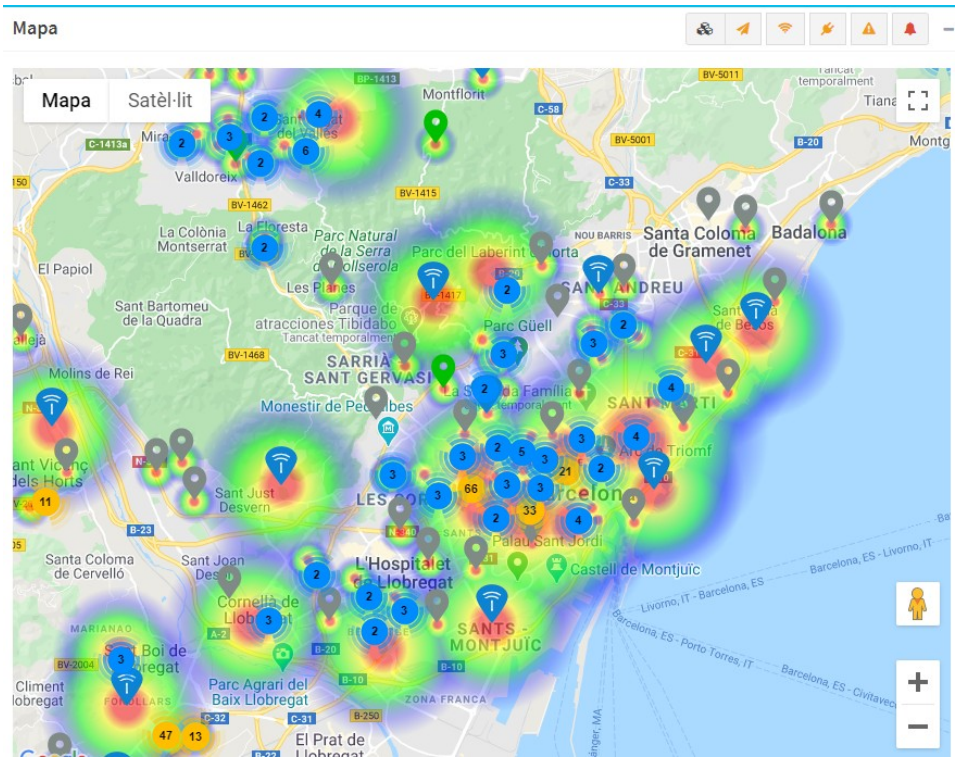
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LORA – MESH and LORAWAN

- The PYRUS and CIRRUS alarm transmitters can transmit over 4 different paths, integrating in a single device up to 3.The devices form a LORA-MESH network between each other, this network it is full bidirectional without need for configurationa and its management it is carried from cloud, Lora coverage can be checked in a Google maps view with heat maps.
- The LORA transmission provides the **anti-jamming** funciton, and even more, it provides an extra safety for the communications against Cellular or LAN polling failures.
- They can also connect with existing LORAWAN networks such The Things Network, so thanks to its network diversity it increases the chance to have LORA service, the following image shows the combined network created from LORAWAN TTN gateways and the CIRRUS deployed devices.



NB-IOT and LTE-CAT-M1

NB-IOT it is a new technology supported by many network operatos and available in many countries in Europe. Its better feature desite of its low operation power, it is the coverage, NB_IOT offers a link budget of 164dB,thus offering the chance to connect any alarm control system despite it is located deep indoors such parkings cases. These technologies have continuity in the 5G, in fact they are called “Massive IOT 5G”. the picture above shows NB-IOT and LTE-CAT-M1 coverage improvement compared to 4G.

