

## PYRUS ALARM TRANSMITTER SERIES



- The only triple path fire alarm transmitter in the market,
- **Two front cover leds as required per EN54-21 clause 5.3**
- **Anti-jamming** by means of **LORA** and **NB-IOT**
- DP4 as per EN50136-2
- **EN54-21** certification, Dop 0034
- 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-TLE:** Triple path ATS with ETHERNET + NBIOT or LTE-CAT-M1 + LORA.
- **PYRUS-TL :** Dual path ATS with GPRS + NB-IOT + LTE-M1 + LORA.

### Integrations

**HONEYWELL:** ID3000, ID50/60, AM8200, MA2000, MA8000, DCx2, DCx4, MORLEY-LT. Event Report and remote control.

**DETNOV:** CAD150, VESTA, CC, Event report, ETH/4G routing feature to Detnov cloud.

**COFEM:** LYON, CLVR, Event report and Remote control

**INIM:** PREVIDIA, TCP-IP SIADC09 event routing to CS , and Remote control by means of Modbus-TCP, routing ETH/4G function to INIM cloud.

### Technical features

- 3 input NO / NC / EOL.
- Two open drain outputs
- Double 6 ... 30Vdc input voltage , compliant with **EN54-21 clause 7.5.2**
- **Very low consumption: 10mA @ 24V**
- Tripe technology modem, 4G/5G technologies NB-IOT and LTE-M and EGPRS backup ,
- **LORA** radio transceiver with NIOT-MESH and LORAWAN.
  - bands 868-870 Mhz.
    - Nominal : 869.525Mhz / 17dBm
  - Frecuency hopping.
- MODBUS RS485
  - 4 or 4 relay MODBUS relay modules available for remote control of Sirens, Extinction and Reset (power reset).

## WIRELESS RADIO

where available there is an 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 machinery 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](http://www.nuvasafe.com)

[www.nuvathings.com](http://www.nuvathings.com)

or contact us at:

[info@nuvathings.com](mailto:info@nuvathings.com)

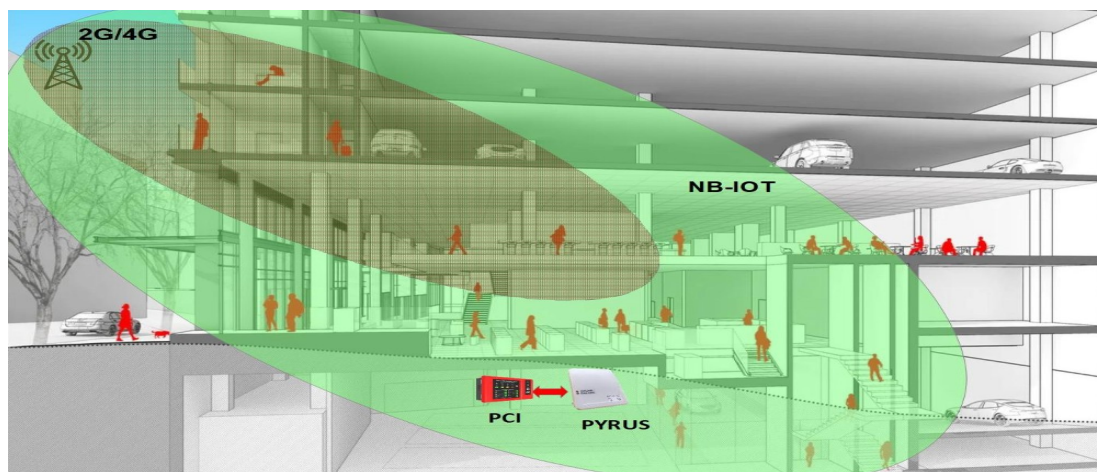
[info@nuvasafe.com](mailto:info@nuvasafe.com)

C/Murcia 35F  
08830, Sant Boi de Llobregat  
Barcelona, Spain  
phone: + 34 930185134  
[www.nuvasafe.com](http://www.nuvasafe.com)

## NB-IOT and LTE-CAT-M1

NB-IOT it is a new technology supported by many network operators and being deployed worldwide. Its better feature despite 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". LTE-M it has also a better coverage compared to 2G, but not as deep indoors as NB-IOT is, our devices can roam with NB-IOT, LTE-CAT-M1 and GPRS networks seamlessly.

Check availability in : <https://www.gsma.com/iot/deployment-map/#labs>



## 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 configuration 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** function, 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 Helium, so thanks to its network diversity it increases the chance to have LORA service, the following image shows the combined network created from LORAWAN gateways and the CIRRUS deployed devices, in Barcelona.

