

LoRaWAN WIRELESS NODE

Description

The LoRaWAN Wireless Node is an ultra-low power data acquisition and transmission unit designed for remote monitoring of geotechnical, structural, environmental, and hydrological sensors.

The device acquires data from connected sensors and transmits it via the LoRaWAN network to a dedicated gateway or existing LoRaWAN infrastructure. The data is then sent to the Gestecno monitoring server, where it is stored, processed, and made available via a secure web portal.

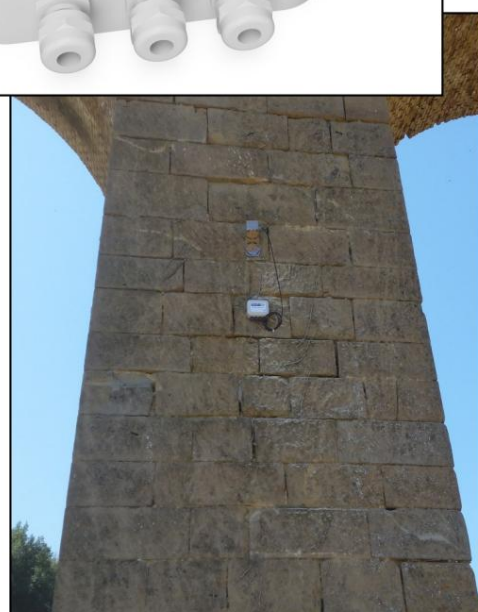
Access to the system occurs via a standard internet browser without the need to install dedicated software.

The following functions are available directly on the WEB portal :

- Reading the required variables
- Graphic trend of the measurements
- Export data in various formats
- Alarm management
- Alarm event storage

Applications

- Landslide monitoring
- Geotechnical and structural monitoring
- Monitoring of groundwater and superficial
- Monitoring of sources, reservoirs, aqueducts



Characteristics

- Communication technology
LoRaWAN
- Low energy consumption
- Long-lasting battery power supply duration
- High radio range
- Compatible with the most common geotechnical instrumentation available on the market

Technical specifications

Radio technology	LoRaWAN Class A
Frequency	868 MHz (EU)
Radio range	up to 10 km in open field
Analog inputs	up to 2 configurable (4-20 mA, 0-5 V, mV/V)
Digital inputs	2
ADC Resolution	16 bit
Accuracy	< 0.2% FS
Diet	High capacity lithium battery
Typical autonomy	up to 5 years
Standby consumption	< 20 μ A
Transmission absorption	< 120 mA
Container	IP67 polycarbonate
Operating temperature	-20 ... +70 °C
Dimensions	150 x 200 mm
Installation	On the wall or on the pole

Accessories and spare parts

- Replacement battery
- Pole attachment collars
- Amplified receiving antenna

Ordering Information

PRODUCT	DESCRIPTION CODE
UAL-100	Analog LoraWAN Node
UAL-200	Digital LoraWAN Node
UAL-500	Gateway



For more information:

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