

WLRE

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WineCap LoRa®



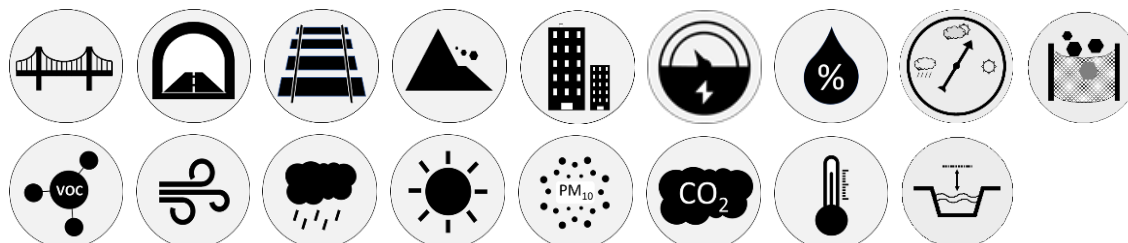
WineCap™ LoRa® Enhancer (repeater and router)

Wireless repeater and router to extend the radio coverage of the wireless sensor network. Free installation in any position. Excellent radio coverage and autonomy.

Main features

- Can be installed in any position
- Rugged and impact resistant case
- IP65
- Up to 7 years of autonomy

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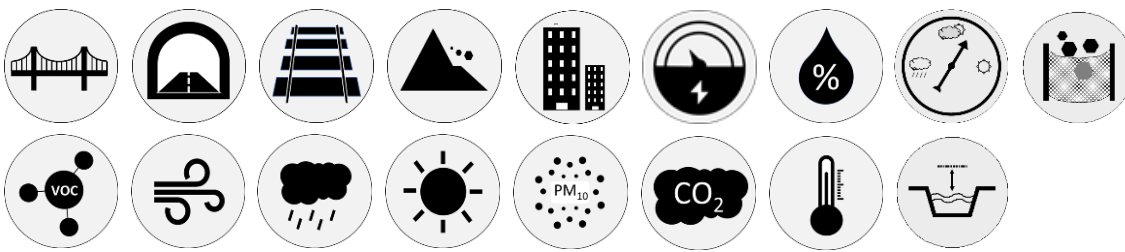


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General technical specifications

Power supply	19Ah - 3.6V type "D" lithium internal battery (BAT3)
Battery life (*)	Up to 7 years <i>(samples every 60 minutes and radio signal quality at least sufficient)</i>
Working temperature	<ul style="list-style-type: none"> • Operative: -30°C ÷ +60°C • Warehousing: -40°C ÷ +70°C
Radio frequency	ISM 868MHz
Radio coverage	Up to 15Km in line of sight <i>(can be extended using WLRE battery powered repeaters)</i>
Sealing	IP65
Dimensions	90x120x50mm
Weight	350g
Case material	ABS
Mounting	Fix on 4 points

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The **WLRE** wireless enhancer (repeater and router), suitable for indoor/outdoor applications, is used to extend the radio coverage of the wireless sensor network.

It's especially used to reach probes and/or dataloggers installed in places far from the data concentration unit (gateway) or in presence of obstacles that can compromise the quality of the transmission.

The radio module High Reliability (*unique 868MHz radio technology. implementing frequency hopping on 20 channels*) based on **WINECAP™ LoRa®** protocol (**Long Range**) provides an excellent radio range (**up to 15Km on sight**), low battery consumption and the certainty of data recovery in any situation (*black out/signal obstacles*).

Adding an enhancer in a wireless network also guarantees the redundancy on paths followed by data towards the data concentration unit.

In case of transmission difficulties, the Adaptive Routing algorithm redirect data to a safer path through available enhancers.

The algorithm, in choosing the various available paths, prefers those with a smaller number of Enhancers for the same received signal.

The **WLRE** enhancer allows the visualization and the monitoring of its diagnostic status:

- Battery level
- Radio signal quality and level
- Number of repeated probes/dataloggers
- Quantity of data managed for each transmission.

The features shown may be subject to change without notice.