

LoRaWAN[®] solution for electrical networks

LoRaWAN[®] technology simplifies data transfer. In this sense, it responds to many problems encountered in the field of utilities.

Every day, the planning, management and maintenance of the infrastructure needed to produce electricity represents hundreds of thousands of values to extract and process.

By allowing an accurate and regular reading, the LoRaWAN[®] solution proposed by Elvexys offers a **simple, economical and durable solution for the recovery of its data**. In addition, and thanks to its know-how, Elvexys has designed it so that it is **perfectly compatible with the use of other technologies**.



Radio modulation
technology



Long range,
low power IoT
network protocol



Transmission on free
frequency bands

Applications

- Measurement of local pocket consumption
- Current quality measurement
- Visualization of network usage
- Increase in data granularity
- Remote reading of counting data from isolated site

The advantages of LoRaWAN[®] with Elvexys

- Reduced operating costs
- Possibility of deploying a private network infrastructure that is independent of telecommunications operators
- Low infrastructure needs and custom installation provided by Elvexys
- Optimization of energy consumption
- Flexibility of network size
- Incident prevention
- Retrofit capability (adding, modifying or restoring technological function to aging systems)
- Elvexys as a single point of contact for each step of the project from data acquisition to maintenance

Energy measurement

Application: Scada

- Visualization and understanding of the low voltage network
- Voltage & current measurement, active energy, reactive energy & power factor calculation
- Connection via Rogowski loop



Metering

Application: XML Billing

- Complete meter with LoRa transmission
- Remote reading of metering data in isolated areas
- Coverage of needs excluding Smart-metering



Fault detection

- Dry contact transmitter associated with a short circuit detector



Environment / Intrusions

Application: Scada

- Presence detection in neighborhood cabins
- Temperature monitoring
- Moisture monitoring

