Arolys

Arolys is **a standalone LoRaWAN® local network device**. Quick and easy to use, it enables **to acquire data from selected LoRaWAN® sensors** in a range of kilometers and provides received measurement over Modbus TCP **to allow usage with any PLC or Industrial system.**

Arolys is **autonomous**, with **no need for a network server or internet access**. All data processing is done in the equipment.
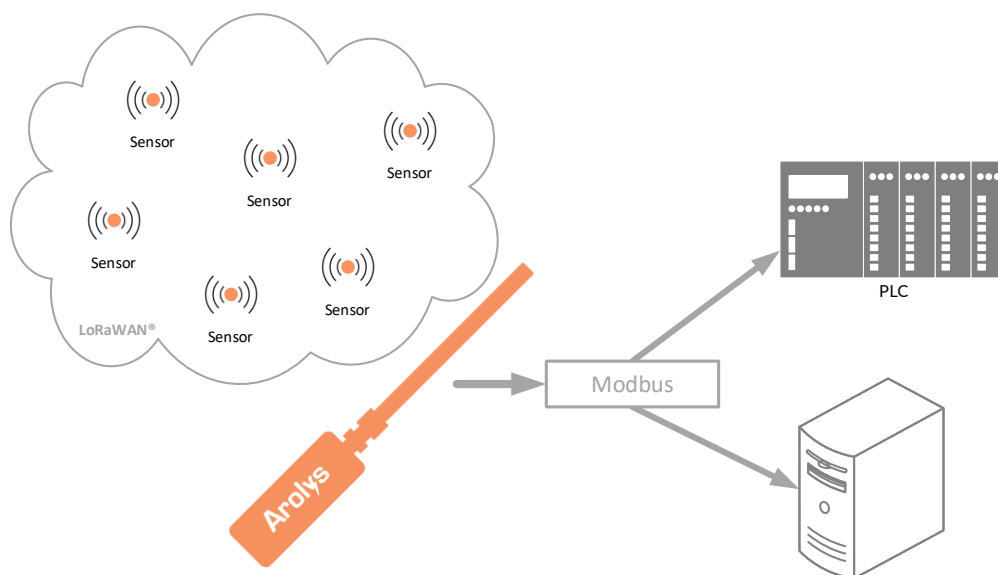
Supported LoRaWAN® Sensors

Elvexys (LEM-301, LEM-302)
Average voltage, Average current, Peak Current, Active/Reactive Power, Peak Current, Positive / Negative energy for all phases, current threshold detection

Elsys (ELT-1, ELT1-Lite, ELT-2-HP, ERS, ERS-Eye, ERS-Lite, ERS-Sound, ERS-CO2 ...)
Pulse, CO2 level, Temperature, humidity, Sound level, Acceleration, Dry-Contact, 0-10V, 4-20mA ...

ATM (ACW-DINDIO/ACW-DINDA)
Digital I/O

Adeunis (Field Test device)
Signal quality, GPS localisation

→ **LoRaWAN® devices from the market can be integrated on request**

→ **Arolys can link up to 30 sensors**

LoRaWAN® device management

Arolys provides a complete and intuitive web interface to manage all your LoRaWAN® devices and map received values to Modbus TCP registers.

- Quick overview of the devices
- Easy management of devices
- Automatically generated Modbus table
- Mapping of supported devices integrated
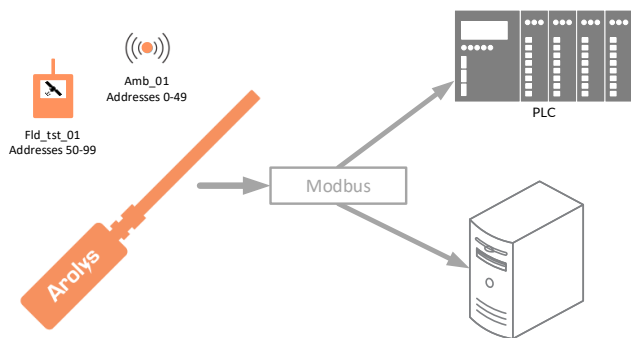
Use case

Arolys is particularly dedicated to supply data to a PLC, a communication gateway, or a computer

- **Monitoring :** Power consumption, voltage, current of any machine, digital I/O monitoring of any dry contact
- **Smart Building :** acquisition of temperature, humidity, luminosity of rooms
- **Agriculture :** acquisition of temperature, humidity, luminosity on the field
- **Controlling :** acquisition of temperature for heating or cooling, acquisition of brightness for lighting control

Benefits

- Stand alone: no internet or subscription
- Up to 10km range
- Wireless communication between devices and Arolys
- Majority of devices working on batteries
- Low energy consumption
- Diversity of data collected
- Dedicated web interface
- Dedicated Arolys software
- Encrypted data
- PoE
- Easy to install: zero configuration

Standards

- LoRaWAN®
- Modbus TCP freely configurable