



BelSenso FM432e

LoRa Electricity Tracker



Product Range

BelSenso

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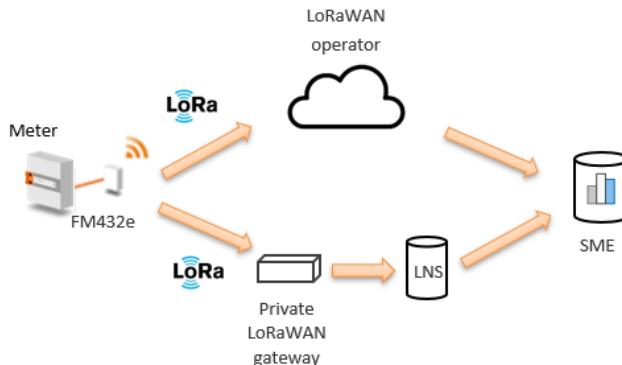
BelSenso FM432e is a universal device that provides Automatic Reading features to all types of electricity meters. The interoperability with the IoT LoRaWan networks, dedicated to Connected Objects, allows to be quickly informed of the level of electricity consumption. The ideal device to deploy energy efficiency services for Small and Medium Buildings.

Benefits

- ⇒ **Universal:** compliant with all meters (electronic, disk, smart)
- ⇒ **Plug & Play:** self installation (<5mn)
- ⇒ **Precision:** monitoring consumption every 1mn, 10mn, 15mn, 1h
- ⇒ **Autonomy:** up to 8 years with battery
- ⇒ **Cost-effective:** competitive IoT Network subscription



Operational



Implementations

- ⇒ **Energy Efficiency of medium buildings:** analysis of consumption (1mn, 10mn, 15mn)
- ⇒ **Budget Energy control of small buildings:** supervision of consumption (1h)
- ⇒ **Solar Installations:** supervision of production (10mn, 15mn, 1h)
- ⇒ **Street Lighting:** optimisation of operational costs (1h)

General and technical features

BelSenso FM432e		
	Compliant with all types of electricity meters	
Input	Optical reading of electromechanical meters (Detection of disk rotations) Maximum speed 5 rev/sec (disk)	Optical reading of electronical meters (Detection of LED flashes) Maximum speed 10 flashes/sec (LED)
Output	LPWAN 868 Mhz Network - LoRaWan 1.0 Internal antenna (PCB) - RF Power 14 dbm (25mw)	
Operational	Fixing with adhesive pads (3M) Selection of the « type of meter » by switch Red and Green LEDs for commissionning T°: -15°C to +45°C	
Data	Load curve measurement: 1mn, 10mn, 15mn, 1h Transmission 5 to 35 messages/day (*) Data delivery (csv/json format) using FTP or API request or Softplug (.exe)	
Power supply	Internal battery 3.6V	
Size & Weight	Optical reader weight: 19gr (with cable) height: 24mm width: 40mm (without cable) depth: 19mm	Radio Box weight: 130gr height: 95mm width: 75mm depth: 30mm

FM432e



References

FM432e_1mn	LoRa Electricity Tracker - data 1mn (**)
FM432e_10mn	LoRa Electricity Tracker - data 10mn (**)
FM432e_15mn	LoRa Electricity Tracker - data 15mn (**)
FM432e_1h	LoRa Electricity Tracker - data 1h (**)

(*) Based on the complete network availability and depending on the version (1h, 1mn)

(**) The radio box includes 2 Lithium size A batteries

Battery life 8 years with hourly data for electronic meter

Battery life 5 years with hourly data for electromechanical meter



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