

BelSenso FM432ir

LoRa Electricity Tracker



BelSenso FM432ir

LoRa Electricity Tracker



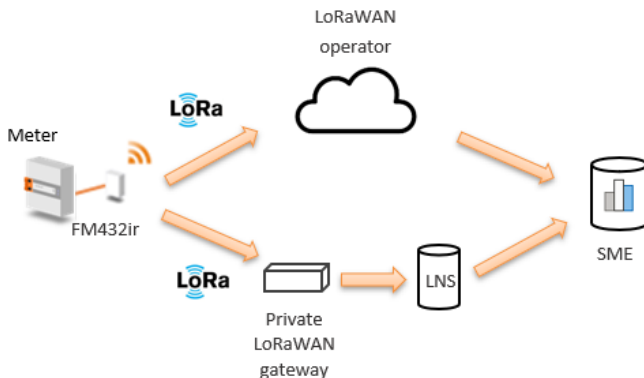
BelSenso FM432ir is a universal IoT optical sensor that can ready many types of Electricity Meters. It has been designed for Meters with infrared communication ports, but can also be used with old Ferraris meters. Radio transmission is based on LoRa technology (Long Range and low consumption) and is compatible with existing LoRaWAN networks.

Benefits

- ⇒ **Universal:** compliant with most meters (Ferraris, mMe,...)
- ⇒ **Plug & Play:** self installation (< 5mn)
- ⇒ **Precision:** consumption measurement every 1mn or 15mn
- ⇒ **Autonomy:** up to 8 years with provided batteries
- ⇒ **Cost-effective:** competitive IoT Network subscription



Operational



Implementations

- ⇒ **Smart Home and customer engagement:** rich content including disaggregation (NILM)
- ⇒ **Smart Monitoring in small buildings:** consumption supervision
- ⇒ **Solar Installations:** production and self-consumption audit
- ⇒ **Street Lighting:** operational cost optimization

General and technical features

	BelSenso FM432ir	
Input	Compliant with most electricity meters	
	Optical reading of electromechanical meters (Ferraris,...) (Detection of disk rotations)	Optical reading of electronic Meters (mME,...) (Decoding of infrared messages)
Output	LPWAN 868 Mhz Network - LoRaWan 1.0 Internal antenna (PCB) - RF Power 14 dbm (25mw)	
Operational	Adhesive pads (3M) Selection of meter type by switch Red and Green LEDs for commissioning T°: -15°C to +45°C	
Data	Load curve measurement: 1mn, 15mn Transmission 13 to 33 messages/day Data delivery (csv/json format): FTP/API/Softplug (.exe)/self-decoding	
Power supply	Internal battery 3.6V (replaceable)	
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

FM432ir



References

FM432ir_ap_15mn	LoRa Electricity Tracker - 15 minute data (*)
FM432ir_ap_1mn	LoRa Electricity Tracker - 1 minute data (**)

(*) Estimated Battery life 8 years for infrared port meter, 5 years for Ferraris (i.e. electromechanical) meter

(**) Estimated Battery life 4 years for infrared port meter, 3 years for Ferraris (i.e. electromechanical) meter

Contact:

Fludia - 37 avenue Edouard Vaillant - 92150 Suresnes - France
Phone: +33 (0)1 83 64 13 90 - Mail: contact@fludia.com - www.fludia.com