



BelSenso FM420

Sigfox Energy Tracker



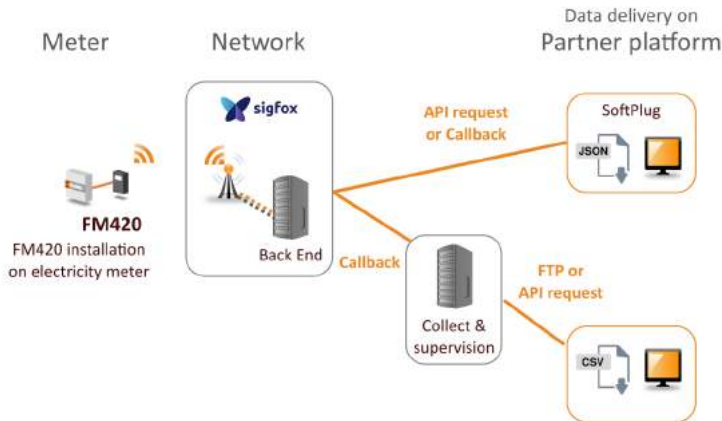
BelSenso FM420 is a universal device providing Automatic Reading feature to all types of electricity meters. The interoperability with the **IoT SIGFOX network**, dedicated to Connected Objects, allows to be quickly informed about the level of electricity consumption. The ideal device to deploy **energy efficiency services for Small and Medium Buildings**.

Benefits

- ⇒ **Universal:** compliant with all meters (electronic, disk, smart)
- ⇒ **Plug & Play:** self-installation (< 5mn)
- ⇒ **Precision:** monitoring of consumption every hour or 10mn
- ⇒ **Autonomy:** 5 or 8 years with battery
- ⇒ **Cost-effective:** competitive IoT network subscription



Operational



Implementations

- ⇒ **Energy Efficiency of medium buildings:** analysis of consumption (10mn)
- ⇒ **Budget Energy control of small buildings:** supervision of consumption (1 hour)
- ⇒ **Solar installations:** supervision of production (1 hour, 10mn)
- ⇒ **Street lighting:** optimisation of operational costs (1 hour)

General and technical features

BelSenso FM420			
	Compliant with all types of electricity meters		
Input	<table><tr><td>Optical reading of electromechanical meters (Generation of pulses depending on disk rotation) Maximum speed 5 rev/sec (disk)</td><td>Optical reading of electronic meters (Generation of pulses depending on LED flashes) Maximum speed 10 flashes/sec (LED)</td></tr></table>	Optical reading of electromechanical meters (Generation of pulses depending on disk rotation) Maximum speed 5 rev/sec (disk)	Optical reading of electronic meters (Generation of pulses depending on LED flashes) Maximum speed 10 flashes/sec (LED)
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Output	SIGFOX UNB 868 Mhz Network - Internal antenna (PCB) RF Power 14dbm (25mw) - Certification ID: P_002F_71DE_01		
Operational	Fixing with adhesive pads (3M) Selection of the « type of meter » by switch Red and Green LEDs for commissioning T°: -15°C to +45°C		
Data	Load curve measurement: 1 hour, 10mn Transmission 3 to 20 messages/day (*) Data delivery using FTP or API request or Softplug (csv/json format)		
Power supply	Internal battery 3,6V		
Size & Weight	Optical reader: 40 x 24 x 19 mm / 19 gr Radio box: 115 x 64 x 31 mm / 137 gr		

FM420
internal antenna



FM420x
external antenna



References

FM420_1h	Sigfox Energy Tracker - data 1h (**)
FM420_10mn	Sigfox Energy Tracker - data 10mn (**)
Options	
FM420x	Sigfox Energy Tracker with External antenna 868 Mhz 1/2 wave
FM_SoftPlug	Soft module (executable) for data conversion in json format

(*) based on the complete network availability

(**) 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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