

BelSenso FM230

Smart optical reader
for all electricity meters



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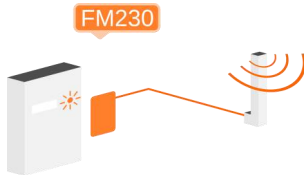
BelSenso FM230 is a smart sensor for measuring electricity consumption of all building types and sizes. It can easily be integrated into all **Smart Home & Building infrastructures** through interoperability with leading wireless radio modules and building automation systems. **Easy installation, low power consumption and high precision** make it the ideal remote reading solution for a large-scale and cost-effective deployment.

Benefits

- ⇒ **Universal:** compliant with all meters (electronic, disk, smart)
- ⇒ **Plug & Play:** self installation (< 5mn), self powered
- ⇒ **Connectivity:** standard pulse output
- ⇒ **Precise:** high resolution load curve
- ⇒ **Customization:** EnOcean or wM-Bus integrated models
- ⇒ **Economic:** no need of new meter or sub-meter installation

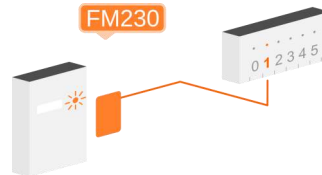


Interoperability



compliant with **radio modules**

Atim, Adeunis, Amber, Elster/Wavenis, Veolia/Pulsetrack, Enless, etc.



compliant with **logic controllers**

Schneider, Siemens, Somfy, Trend, Tridium, Wago, Webdyn, Wit, etc.

Already
tested

Implementations

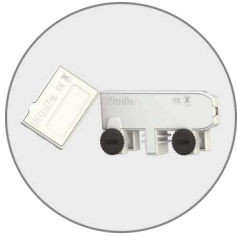
- ⇒ **Large buildings:** superstore, hospital, municipality
- ⇒ **Medium buildings:** school, retirement home, retail store
- ⇒ **Small buildings:** bank agency, shop, small office and home office



General and technical features (*)

	BelSenso FM230m	BelSenso FM230e
	Compliant with all types of electricity meters	
Input	Optical reading of electromechanical meters (Generation of pulses depending on disk rotation) Maximum speed 5 rev/sec (disk)	Optical reading of electronical meters (Generation of pulses depending on LED flashes) Maximum speed 10 flashes/sec (LED)
Output	Pulse output (Open collector) 2 wires Pulse duration 78 ms Polarized voltage 3V to 24V	
Operational	Fixing with adhesive pads (3M) Red and Green LEDs for commissioning T°: -20°C to + 45°C	
Power supply	Battery pack 3,6V	
Size & Weight	Optical reader: 73 x 32 x 93 mm / 23gr	35 x 25 x 17 mm / 16 gr
	Battery pack: 40 x 24 x 19 mm / 19 gr	

FM230e



FM230m



References

FM230e	Optical reader for electronic meters (**)
FM230m	Optical reader for electromechanical meters (**)
Options	
On demand	Battery pack 10 years, Power supply 230V adaptor or Din rail



(*) For customized versions **FM250** (configurable), **FM260** (Enocean), **FM270** (w-MBus) -> **contact us.**

(**) The battery pack includes a Zentries screw block + 1 lithium size A battery
Battery life of 5 years depending upon application

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