

Fludia
Smart Energy Components

Connected Pack FM232

Electricity & Temperature



Product Range

BelSenso

Connected Pack FM232 Electricity & Temperature



The connected pack **FM232e + FM232t + F-Link** is a Plug&Play solution for collecting data (electricity & temperature) from small and medium buildings.

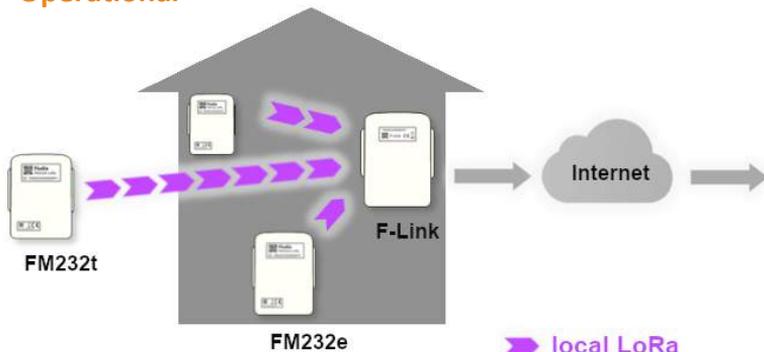
It includes a FM232e sensor (electricity consumption measurement from existing meter), a FM232t sensor (temperature measurement) and a micro-bridge F-link. Measurement time step is **1-minute** or **15-minutes**. The FM232 sensors regularly transmit data messages including several successive measurement values. The F-Link micro-bridge receives these messages and forwards them to the Fludia data collect server, through the existing Internet access.

Benefits

- ⇒ **Universal**: compliant with most meters
- ⇒ **Plug & Play**: self-installation (< 5mn)
- ⇒ **Granularity**: 15-minutes or 1-minute measurement
- ⇒ **Evolutive**: other sensors can be added later (up to 8 additional sensors)



Operational



DateTime	power (W)
22/06 11:10	500
22/06 11:11	612
22/06 11:12	4782
22/06 11:13	1789

DateTime	temp. (°C)
22/06	21.2
22/06	21.4
22/06	21.9
22/06	21.2

Implementation

⇒ **Professionals & Residential** : electricity consumption and temperature monitoring.



General and technical features

	FM232e (electricity)	FM232t (temperature)	F-Link (micro-bridge)
	Sensor with optical reading system for electromechanical meters (disk rotations) et electronic meters (LED flashes)	Indoor temperature sensor	Local LoRa to Internet Micro-bridge, collecting energy related data (electricity, temperature) transmitted by FM232 sensors
Output	Local LoRa Radio 868MHz point to point mode Internal antenna (PCB) RF Power 14 dbm (25mw)	Local LoRa Radio 868MHz point to point mode Internal antenna (PCB) RF Power 14 dbm (25mw)	Ethernet cable Wifi https
Data	Measurement time step: 1-minute or 15-minutes Data delivery (csv/json format): FTP/API/Softplug (.exe)/self-decoding		
	data message every 20 minutes, including twenty 1-minute successive values data message every 2 hours, including eight 15-minutes successive values	data message every 20 minutes, including twenty 1-minute successive values data message every 2 hours, including eight 15-minutes successive values	
Power supply	2 replaceable Lithium 3.6V batteries	2 replaceable Lithium 3.6V batteries	AC adapter 230V/5V
Autonomy	(*)	(**)	
Size & Weight	Optical reader Weight: 18g Size: 46 x 29 x 17mm Radio box Weight (without batteries): 76gr Size: 94x74x30mm	Weight (without batteries): 76gr Size: 94x74x30mm	Weight: 76gr Size: 94x74x30mm

Connected Pack (Electricity & Temperature)



FM232t

+



FM232e

+



F-Link

References

Connected Pack_15mn

15-minutes data

Connected Pack_1mn

1-minute data

(*) Autonomy FM232e

Electronical meter: 4.5 years with 1-minute option, 9 years with 15-minutes option

Electromechanical meter: 3.5 years with 1-minute option, 5 years with 15-minutes option

(**) Autonomy FM232t

6 years with 1-minute option, 12 years with 15-minutes option



Contact:

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