











Pulse counter

Wireless datalogger for the count of pulses generated by energy meters, litrecounters, etc. Free installation in any position. Excellent radio coverage and autonomy.

Suitable to monitor:

- Electrical consumptions
- Water consumption
- Gas consumption
- Generic counts

Main features

- Compatible with any digital energy meter with pulse output.
- Can be installed in any position
- Rugged and impact resistant case
- IP65
- Maximum count frequency: 40Hz
- Up to 7 years of autonomy





General technical specifications

Power supply	8.5Ah - 3.6V type "C" lithium internal battery (<i>BAT2</i>)
Battery life (*)	Up to 7 years
	(samples every 60 minutes and radio signal quality at least
	sufficient)
Measures acquired (2 input channels)	Pulses from clean contact or open collector
	configurable as:
	Active electric energy [KWh]
	• Reactive electric energy [Kvarh]
	• Apparent electric energy [Kvah]
	• Thermal energy [KWh]
	• Fluid volume [/]
	Generic pulses
	Generic pulses with scalable aggregate count
	Compatible with energy meters with pulse digital
	outputs (open collector, digital output)
Sampling interval (*)	Selectable from one minute to 24 hours (60 minutes
	default)
Datalogger capacity	128,000 samples (<i>for each channel</i>)
Working temperature	• Operative: -30°C ÷ +60°C
	• Warehousing: -40°C ÷ +70°C
Radio frequency	ISM 868MHz
Radio coverage	Up to 6Km in line of sight
	(can be extended using WR12 battery powered repeaters)
Sealing	IP65
Dimensions	90x120x50mm
Weight	350g
Case material	ABS
Mounting	Fix on 4 points
Connections	Wireless, USB
Cable external diameter	4.7mm maximum
Copper wire section	0.05 ÷ 2.5mm² / ÷ 14 AWG
Optional accessories	• Energy meters
	Rogowski coils
	Open/closed TA (<i>current transformers</i>)
	• POD counter pulse acquisition interface (EXP2PUL)

Pulse count

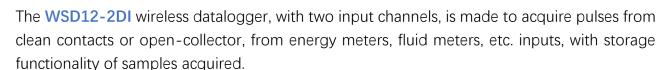
Connection	Internal clamp terminal block
Transducer input	Cable gland Ø from 0 to 4.5mm
Maximum count frequency	40Hz with pulse time at 10msec
Count weight	Selectable via management software











Counting is continuously performed on input channels and is partially considered on the configurable sampling period. In case, counting can be set as aggregate and scalable.

Data are wireless transmitted and internally stored.

The radio module High Reliability (*unique 868MHz radio technology. implementing frequency hopping on 11 channels*) based on **WINECAP™ LuPo** protocol (*Long Range*) provides an excellent radio range (*up to 6Km on sight*), low battery consumption and the certainty of data recovery in any situation (*black out/ signal obstacles*).

With a backup memory onboard may store the last 128,000 samples per channel even if the wireless link is down. Samples can be downloaded using a USB connection.

Using the configuration software, the sampling interval may be set and two thresholds per channel can be activated.

May be interfaced with:

- all the gateways of MWDG product line
- all the gateways of MWLI product line

If necessary, radio coverage may be extended up to 16 times using <u>WR12 repeaters</u> (battery powered repeaters with battery life up to 7 years) between the datalogger and the **gateway**.

The features shown may be subject to change without notice.