

Radio EVO Module 868 MHz LoRaWAN



SJ EVO water meter with LoRaWAN™ Radio

Compact radio module with built-in bidirectional inductive sensor, designed for Maddalena SJ EVO. It allows long-range remote reading via radio through the LoRaWAN™ protocol of consumption data, ensuring ease and efficiency.

The factory settings can be changed later via radio with the configuration kit (optional).

- Bidirectional inductive sensor
- Direct mount with automatic activation when water passes through
- 868 MHz radio transmission, with **LoRaWAN™** protocol
- Data transmitted: current volume, volume on the billing dates, maximum and minimum flow rate, zero flow daily percentage
- **Battery lifetime 11 years + 1**
- Protection rating: IP67
- Compact size

DESCRIPTION

Based on the inductive principle, which ensures insensitivity to magnetic interference fields, the module's internal sensor detects the revolutions of the meter's pointer, calculates the volume (both directions) and manages the alarms.

The alarms managed are: backflow, meter blocked, low battery and mechanical tampering (removal).

RadioEVO complies with the LoRaWAN™ communication protocol, ensuring the possibility of fixed long-range reading and interoperability with any network that implements this protocol.

TECHNICAL SPECIFICATIONS

SENSOR		Inductive, dual spool (bidirectional)
COMPATIBLE METERS		SJ EVO, CD SD PLUS EVO
SENSOR RESOLUTION		1 litre
ALARMS		backflow, meter blocked, low battery and mechanical tampering (removal)
CONFIGURATION		Via optical interface
POWER SUPPLY		Lithium-ion battery (replaceable), 11 years + 1 year storage
APPROVALS		Red Directive 2014/53/EU
RADIO	STANDARD	LoRaWAN™ 1.0.2
	MODES	868MHz (EU868)
	FREQUENCY	14 dBm
	TRANSMISSION DISTANCE	EN 13757
	REFERENCE STANDARDS	current volume, volume on the billing dates, maximum and minimum flow rate, zero flow daily percentage
	DATA TRANSMITTED	2x/day
ENVIRONMENTAL CONDITIONS		Storage temperature: -20 °C ÷ +60 °C Operating temperature: 0 °C ÷ +60 °C
PROTECTION RATING		IP67