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Wireless modul FL4-SG

For residential water flowmeters
NWM Europe

Remote reading systems are widely used by water-supply operators. This technology, at low investment costs, greatly improves work efficiency and reduces error rates of counters reading persons. It avoids disturbing the privacy of customers and reduces the security risks for the human readers. Radiomodules provide a number of features for the user. They allow you to closely monitor the consumption patterns of the customer, provide information about the accuracy of the water meter selection, signals unauthorized interferences.

Recorded and transmitted data

- Water meter serial number
- Water counter value at reading time
- Current time
- Date of reading
- Counter value at the reading date
- Records of month consumption in last 14 months before current reading
- Volume of water flow in reverse direction (if any)
- Battery operating time
- Time of failure
- Warning messages:
Presence of a foreign magnetic field (influenced by a magnet)
Removing the module from flowmeter
Max flow exceeded
Zero flow - for 21 days the flow did not exceed the lower threshold
Water leakage – during last 48-hours actual flow didn't fall below low threshold
Backflow→
Failure of optical reading sensors
Low battery - Battery voltage drops

Regularly sent data are shown in **bold**. Other data are sent sequentially (depends on firmware version).

Technical parameters

Dimensions:	D = 66mm x H = 27mm (without antenna)
Power:	Lithium battery AA
Battery life:	11 years**
Protection degree:	IP65
Moisture:	.0 - 99%
Operating temperature:	-10 ° C / + 55 ° C
Short-term temperature:	-20 ° C / + 70 ° C
Storage temperature:	+ 5 ° C to + 35 ° C

** Under normal operating conditions + 5 ° C to + 35 °C
Min. operating temperature -10 ° C (<15 days / year), Max. operating temperature + 55 ° C (<15 days / year).

Radio communication

SIGFOX protocol

Frequency:	868 MHz
Enhanced power:	25 mW
Communication:	max. 4x daily with battery life appr. 6 years