



MacR6 N

MacR6 N is a compact device which records pressure and the water flow. It uses the current GSM network infrastructure for remote data transmission.

MacR6 N data logger can be installed directly on the water meter and record the volume using built-in inductive sensors.

It is also equipped with two configurable inputs that can be used as: pulse inputs to connect water meters using dedicated adapters of the water meter producer, pressure sensor inputs, digital binary inputs. MacR6 N data logger transmits data remotely to eWebtel platform by default. Thanks to open protocol it can be adapted into other platforms. Device is also equipped with an NFC interface for local configuration and reading of the device's recorded data using the Confit! data loggers mobile application.

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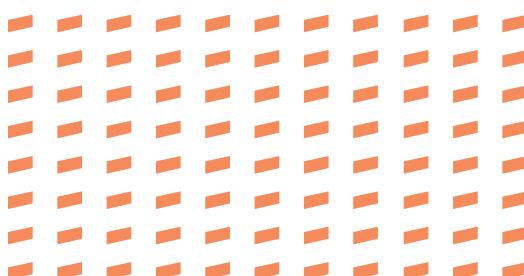
edition
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water flow and pressure data logger

key benefits

- single type of the device with adjustable software to cover different measurement scenarios with water meters and pressure monitoring
- mobility of the device and easy adjustment between GSM networks without losing any features
- real-time water leak detection
- fully adjustable logging properties like frequency of reporting, sampling, alarming thresholds
- possibility to prioritize the alarms by giving them flags of only warning or alarm
- communication in newest industrial transmission standards
- can work as stationary data logger for local data collection by mobile phone



technical data

dimensions	114 x 110 x 45 mm
supply	lithium battery with a nominal voltage of 3.6 V, size D according to IEC 60086-1 and a maximum capacity of 14 Ah; battery life: 10 years depending on frequency of synchronization of data to the server
protection level	IP68 in accordance with the requirements of EN 60529
operating temperature	from -25 °C to +50 °C
inputs	<ul style="list-style-type: none">inductive sensor for compatible water meters: ITRON, DIEHL METERING, MADDALENA/ JANZflood sensormagnetic field sensor2 measurement inputs: voltage 0.5 to 4.5 V4 digital inputs: binary – signaling or counting
pressure sensor	<ul style="list-style-type: none">option 1: pressure sensor 0-10 bar (measurement accuracy: 0.5% FS)option 2: pressure sensor 0-26 bar (measurement accuracy: 0.5% FS) operating temperature: from 0 °C to +30 °C
data registration period	measurement data from 1 to 60 minutes, events with timestamp when event started and ended
reporting frequency	configurable from 1 to 24 times per day, direct report after occurrence of the alarm
data transmission	<ul style="list-style-type: none">local data readout via mobile device with NFCintegrated LTE Cat. M1/ NB IoT/ 2G modemsupport for transmission protocols: TCP, UDP, HTTP, FTP
clock	built-in clock with time zone adjustment; synchronized with the GSM network operator or NTP time server
accessories	eWebtel - measurement data acquisition system ConfiIT! data loggers - telemetry module configuration application Mac-PW - industrial pressure sensor Mac-HS - hydrostatic liquid level sensor

compatibility

Diehl water meters



Itron water meters



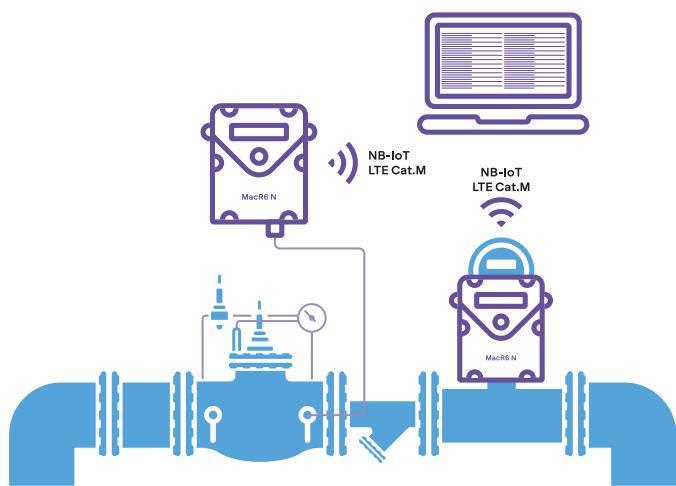
Maddalena/Janz water meters



application

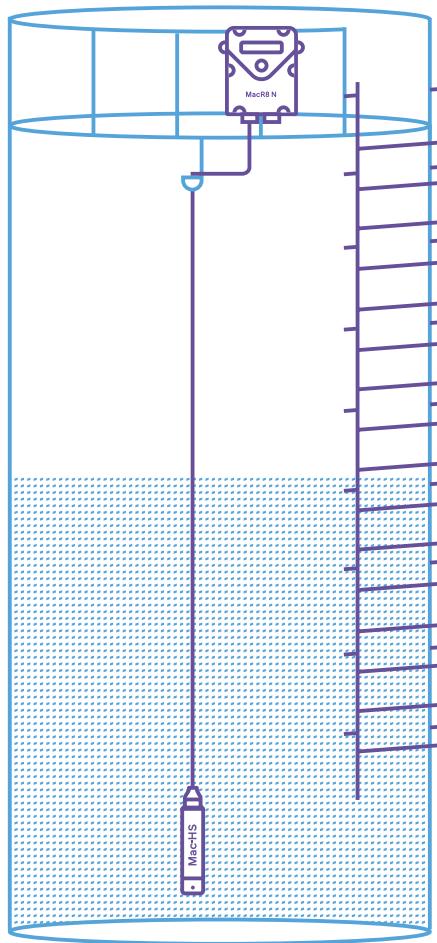
forward and reverse flow monitoring

Remote measurement and registration of two way direction flow with data record.



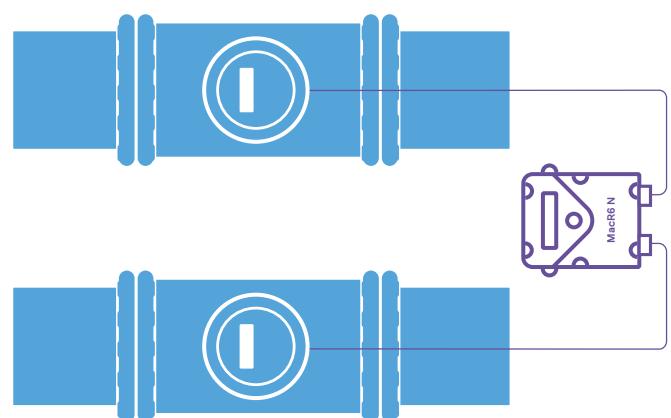
water level monitoring

Remote water level monitoring.

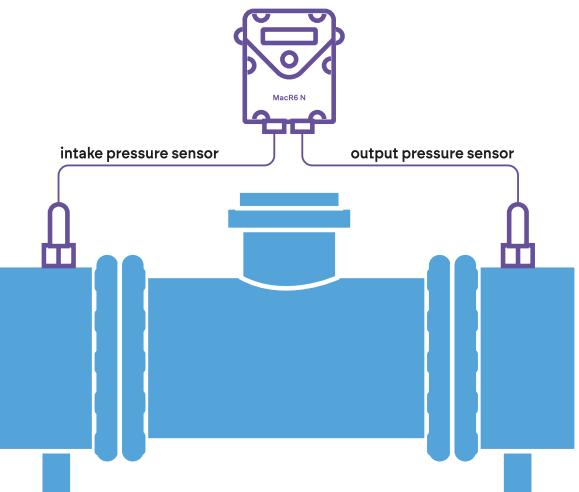


two water meters

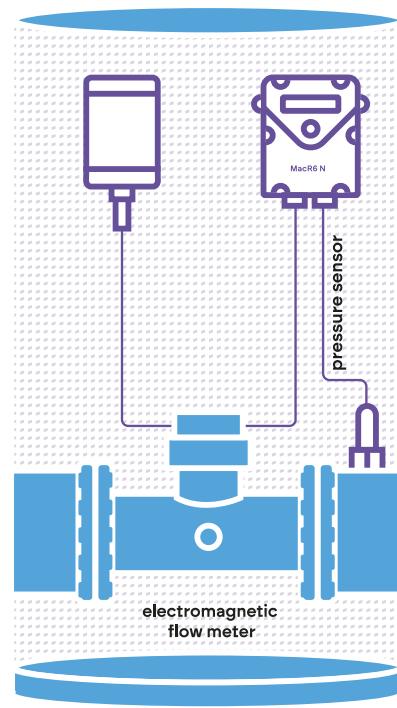
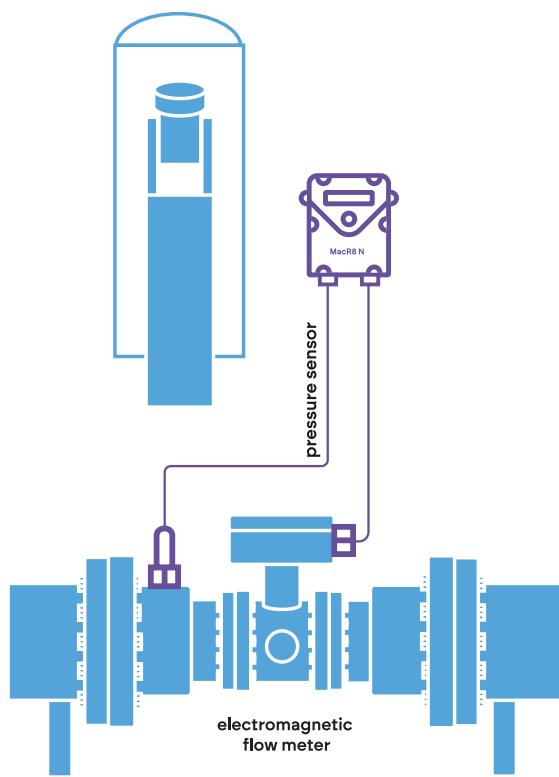
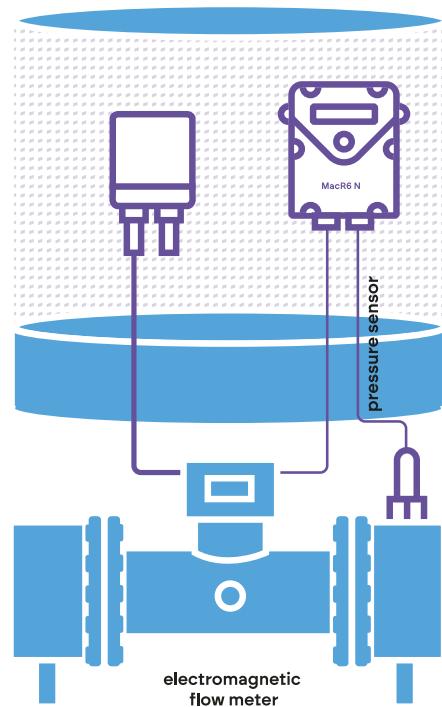
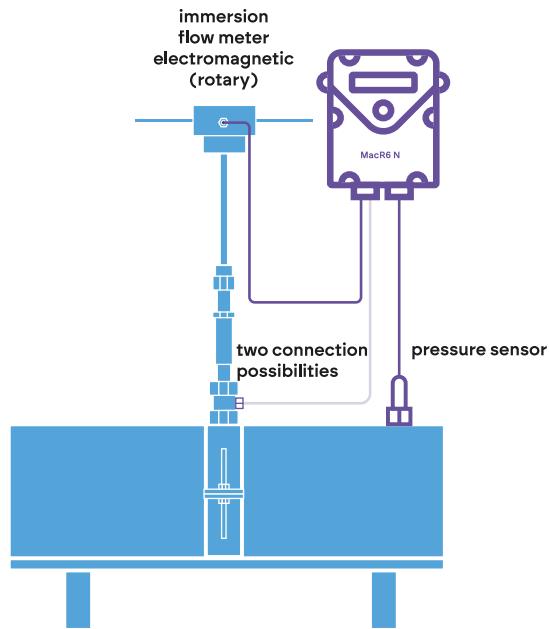
Remote measurement and registration of flow from two water meters.



pressure measurement



■ other examples
of installations with the MacR6 N data logger



benefits of digitising the water utility

- reducing water losses
- increasing the efficiency of work and personnel
- generating more profit
- secure data of critical infrastructure enterprise

diagram of the equipment

