

Wireless communication module FLS-SG for flowmeters SENSUS (ITRON)



Remote reading systems are widely used by operators of water supply networks. This technology with low investment costs significantly increases efficiency and reduces errors of water screening (invoicing). Eliminates interference with privacy of customers, reducing security risks for the on-site data gathering workers and generally overall labor costs.

This module offers many useful functions to the water supply authorities. Allows detailed monitoring of customer's water consumption, checks whether real flows corresponds with installed model of flowmeter, indicates unauthorized handling with meter etc.

On ITRON flowmeters can be mounted with an adapter.

Recorded and transmitted data

- Flowmeter's serial Nr.
- Status of volume counter in time of reading (transmission)
- Real time
- Date of reading
- Status of volume counter to date of reading
- Records of monthly water consumption in 14 months before date of reading (only for local reading)
- Volume of water in reverse flow
- Lifetime of battery
- Time elapsed during fault state
- Warning messages :
 - Presence of foreign magnetic field close to meter
 - Electronic module was separated from flowmeter
 - Current flow exceeds default maximal value
 - Zero flow – during last 21 days current flow would not exceed default minimal value
 - Water leakage – during 48 hours current flow didnt fall under default minimal value
 - Back flow (reverse flow) was detected
 - Fault of optical reading system
 - Low battery – voltage drops under default level

Data printed in **bold** are transmitted periodically, others sequentially, one value per standard transmission

Technical parameters

Dimensions	diameter = 66mm, height 27 mm
Power supply	Lithium battery, AA size
Lifespan of battery	+) 6 years
Cover	IP67
Humidity resistance	0 - 99 %
Operating temperature	-10°C / +55°C
Short time temperature	-20°C / +70°C
Storage temperature	+5°C to +35°C / During transportation -20°C

+) In standard operating conditions: Operating temp.: +5°C to +35°C; -10°C < 15 days/year; +55°C < 15 days/year.

Radio communication

Comm. protocol	SIGFOX
Frequency	868 MHz
Output power	25 mW
Comm. frequency	standard 1 per day