

SLM – Smart level monitoring device

The SLM is an acronym for Smart Level Monitoring, an industrial IoT device that contains a hydrostatic level sensor, connected to a Smart Monitoring Device that can be installed in wells, basins, and reservoirs, as it has an IP68-protected housing and offer a precise water level measurement with considerable accuracy. In places where it is necessary to measure water level but there is no power supply or the traditional GSM-based technology does not work, this device can be used as it has internal battery and LoRaWAN or NB-IoT radio communication. The device has its antenna on the box, which can be extended with cable in tricky situations.

Performance features of level transmitter

- Extremely accurate, excellent long-term stability, no pressure hysteresis
- Integrated overvoltage and polarity reversal protection
- Protection class: IP68
- Compact, robust housing made from stainless steel
- Pressure ranges of 100 mbar to 1 bar (corresponds to water column of 1 m to 10 m)

SLM can be installed:

- wells
- basins
- reservoirs



Technical specification:

Communication	
Transmission options	Nb-IoT/LoRaWAN
Antenna	External
Transmission frequency	Down to 5 minutes, typical 1 hour
SIM type (Nb-IoT)	eSIM
Level transmitter	
Level sensors	1
Level range	0-10m
Cable length	0-50m
Accuracy	±0,25% FS
Pressure range	0,1-1 bar
Power consumption	max. 5 mA
Response time	(0...99%) < 5 ms
Overpressure	4 bar
Protection	IP68

Battery	
Internal battery	3,6V
Battery chemistry	Lithium Thionyl Chloride (non rechargeable)
Environmental	
Operating temperature	-20 - 70 °C
Ingress protection	IP68
Physical	
Dimensions	82x80x55
Weight	200g