

Optical Water Meter Reader

Key Facts

- ✓ Nonintrusive installation on legacy water meters
- ✓ High accuracy with robust machine learning technology
- ✓ Large internal data memory for meter data
- ✓ Relays a real-time image of the meter register on demand
- ✓ Cloud connectivity through mobile narrowband, NB-IoT
- ✓ Local wireless connectivity, Zigbee, BT and Thread
- ✓ High resolution, up to 1 sample per minute
- ✓ Battery-powered with more than 10-year lifespan
- ✓ Ambient temperature monitoring
- ✓ Flood detection, alarm indication if water is detected around the meter
- ✓ Certification for IP68, CE, EMC
- ✓ Fraud detection
- ✓ Leakage detection
- ✓ Intrusion and theft monitoring

Key Data

Mobile radio	NB-IoT
Local wireless radio	2.4GHz and 868/915MHz
Supported mobile protocols	UDP, TCP, M2M, CoAP
Supported wireless protocols	Zigbee mesh, Thread and Bluetooth
Weight	125g
Size (l x w x h)	83 x 92 x 72
Working temperature	-20 - +80 C
Protection class	IP68
Certification	CE, EMC
Battery	non replaceable lithium battery, >10 year lifetime
Measured data	Absolute meter consumption (volume)
Ambient temperature	-20 to +80
Alarms	- Flood warning, water presence - Tamper, movement warning - Leakage detection - High/Low Temperature (Freeze alarm).



Compatible with Elster V210 water meter.



LAIWA Optical Water Meter Reader automatically collects meter readings from legacy water meters. It is installed nonintrusively on the meter. It collects data with high accuracy and reliability at set intervals using optical reading with machine learning technology. The internal battery will last for more than ten years with normal usage.

The meter reader is equipped with different sensors to monitor the water consumption and status of the water meter with high accuracy and reliability, it automatically collects and stores the meter values and send them via the mobile connectivity to a cloud application or via local wireless networks. It monitors the water meter for flooding, low or high temperature and shock, vibration, or manipulation.

The meter readers can work autonomously or in clusters of meter readers with local network sharing one mobile data connection. Its IP68 proof enclosure resists dust and water intrusion.

The Laiwa Optical meter Reader enables smart metering functionality for legacy utility meters without requiring a full-scale replacement of existing meters.

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