SOFREL LevelUp

Contactless radar water level sensor

USES AND BENEFITS

- **Water level measurement in hydraulic structures**
- **Reliable contactless measurement, even in disturbed hydraulic conditions**
- **Flexible installation (ceiling, wall, adjustable arm)**
- **Simplified commissioning and calibration via the MY SOFREL LogUp app**

SOLUTION FEATURES

- Level measurement up to 10 m
- High accuracy (2 mm) for precise monitoring of level variations
- Excellent penetration capability suited to demandin environments (steam, condensation, turbulence)
- Direct communication with the SOFREL LogUp data logger via Modbus

KEY ADVANTAGES:

- Time-saving installation
- Configuration app
- High-precision measurement (2 mm)
- Optimized energy consumption
- IP68 **watertightness**

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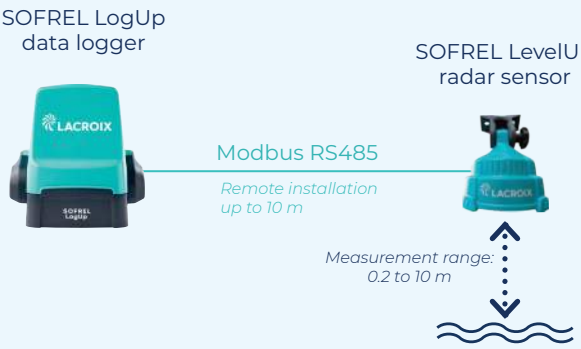
Diagram

A RADAR SENSOR NATIVELY INTEGRATED WITH THE SOFREL LogUp DATA LOGGER



Technical characteristics

RADAR:	
Hardware description	
Dimensions (mm)	Horizontal mounting: H 154 × W 113.6 × D 113.6 - Vertical mounting: H 103 × W 113.6 × D 111.3
Weight	222 g
Operating temperature	–20 to +70 °C
Power supply	Powered by SOFREL LogUp data logger – 5–15 VDC Estimated autonomy of LogUp: 8.5 years (1 measurement every 15 minutes and 1 daily transmission)
Connection cable to data logger	Length: 10 m – quick lock/unlock connectors
Sealing	IP68 (30 days at 4 m or 200 days at 2 m)
Communication with My SOFREL LogUp app:	Bluetooth 5.0 via SOFREL LogUp – range up to 25 m
Measurement characteristics	
Measurement range	0.2 to 10 m
Accuracy	2 mm, ±0.1% depending on measured distance
Beam angle	8°
Radar frequency	V band (60 GHz technology)
Signal output to SOFREL LogUp	Modbus RS485
COMMISSIONING TOOLS:	
My SOFREL LogUp application	
Android mobile app	Available on Google play - Common calibration and diagnostic tool for SOFREL LogUp data logger
Features	Graphical radar calibration - Setup and commissioning - Radar and data logger diagnostics
Installation tool	
Clip-on mounting ring	Integrated spirit level to adjust radar alignment
Laser pointer	Laser targeting to visualize the measured area

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