

# 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 demanding 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)



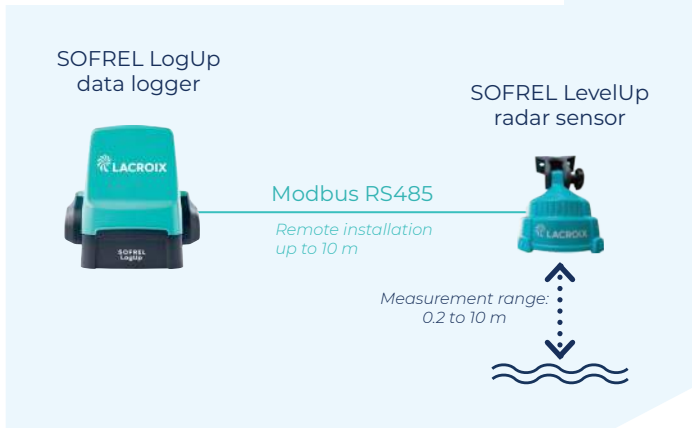
Optimized  
energy  
consumption



IP68  
watertightness

# 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 – 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 <a href="https://play.google.com/store/apps/details?id=com.lacroix.sofrel">Google play</a> - 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

