SOFREL LS-P

REMOTE READING OF METERS AND PRESSURE MEASUREMENT



USES & BENEFITS

- Pressure monitoring
- · Reducers, stabilisers and regulators monitoring
- · Service quality level measurement

PRODUCT FEATURES

- · Enhanced IP68 waterproof rating
- · Battery powered
- · Integrated high performance 2G/4G M2M antenna
- · Access to the SIM card and battery on site
- \cdot 3-year manufacturer guarantee

EASE OF USE

- · On-site communication and exploitation via Bluetooth link
- \cdot Open to supervisory control software and third-party applications of major water operators
- · Specific communication protocol guaranteeing data availability
- · Simplified data exploitation via the SOFREL WEB LS IoT platform





GENERAL FEATURES:	
Mechanical design	Screwless opening system for easy access to the SIM card and battery
Dimensions	H 261 x W 155 mm
Weight	1,1 kg
Operating temperature	-20°c to +55°c
Storage temperature	-25°c to +70°c
Watertightness	Enhanced IP68 certification (200 days under 2 meters of water)
Power supply	Powered by an internal lithium battery
Connector types	Military-grade hermetic connector
DATA LOGGER INPUTS:	
AI (Analog Inputs)	2 analog inputs for SOFREL pressure sensors or remote powering of third-party sensors Remote powering of third-party sensors via 4-20 mA loop, 12 V or 20 V
COMMUNICATION:	
2G/4G M2M quad-band modem	4G LTE-M: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85 4G NB-IoT: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85 Quad-band GSM/GPRS/EDGE (850 MHz, 900 MHz, 1800 MHz)
Supported SIM cards	Standard SIM cards (Nano and Micro SIM cards can be installed via adapter)
Versatile antenna (FLEX option)	4-meters, IP68-certified external antenna
Automatic data logger synchronisation	Daily synchronisation of the LS via the SCADA
Communication with 1 or 2 PCs	Periodic, programmed or event-based
Inter-sites communication to S500, S4W, YDRIX or AS	Periodic or event-driven (change of DI status or threshold exceedance)
Alert transmitted to mobile via SMS*	Upon change in DI state, exceeded threshold, sensor fault
CONFIGURATION AND COMMISSIONING:	
Bluetooth	Data logger configuration via Bluetooth link
Assistance with commissioning	4G M2M and 2G reception level measurement LEDs for visual diagnosis of operation and 4G M2M/2G signal
Assistance with maintenance	Remaining battery life calculator
ARCHIVING:	
Local archiving capacity	100,000 data points
PROCESSING:	
District metering	Calculation of average flows Calculation of night flows Calculation of daily volumes, daily minimum and maximum flows
CERTIFICATIONS:	
CE Certification	2014/53/UE "Radio equipment" 2014/30/UE "Electromagnetic compatibility" 2014/35/UE "Low voltage"
Enhanced IP68 certification	Extended immersion test (200 days under 2 meters of water) performed by an independent laboratory
STANDARD BATTERY LIFE:	
2 pressure measurement every 15 minutes, processing and daily transmission to the	12 years

* Depending on the activation of the telecom operator

