

SOFREL LS-P

PRESSURE MEASUREMENT AND REMOTE READING



USES AND BENEFITS

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

PRODUCT FEATURE

- Enhanced IP68 waterproof rating
- Battery powered
- Integrated high performance 2G/3G antenna
- Automatic reception testing for best 2G/3G operator
- Access to the SIM card and battery on site
- 3-year manufacturer guarantee



EASE OF USE

- On-site communication and exploitation via Bluetooth link
- 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*

*Available for IP version data loggers



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 (100 days under 1 meter of water)
Power supply	Powered by a standard or high capacity internal lithium battery
Connector types	Military-grade hermetic connector

DATA LOGGER INPUTS:

AI (Analog Inputs)	2 analog inputs for remote powering of SOFREL pressure sensors
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COMMUNICATION:

2G/3G quad-band chipset	Quad-band GSM/GPRS/EDGE (850 MHz, 900 MHz, 1800 MHz, 1900 MHz) Hexa-band UMTS WCDMA FDD (800 MHz (B19), 850 MHz (B5/B6), 900 MHz (B8), 1900 MHz (B2), 2100 MHz (B1))
Supported SIM cards	Mini SIM cards Nano and Micro SIM cards can be inserted using an adapter
Versatile antenna (FLEX version)	4-meters, IP68-certified external antenna
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 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	3G and 2G reception level measurement Best 3G and 2G operator test LEDs for visual diagnosis of operation and 3G/2G signal
Assistance with maintenance	Remaining battery life calculator

ARCHIVING:

Local archiving capacity	50,000 data points
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CERTIFICATIONS:

CE Certification	2014/53/UE	"Radio equipment"
	2014/30/UE	"Electromagnetic compatibility"
	2014/35/UE	"Low voltage"
Enhanced IP68 certification	Extended immersion test (100 days under 1 meter of water) performed by an independent laboratory	

STANDARD BATTERY LIFE:

2 counts every 15 minutes, and one daily transmission to the SCADA	12 years
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*Available for IP version data loggers