SOFREL Chlorine

Online chlorine trend monitoring and alert station



USES & BENEFITS

Measurement of chlorine

- \cdot Real-time monitoring of active chlorine values
- \cdot Detection of any breach of high and low thresholds and immediate alarm
- \cdot End-of-network monitoring, critical or strategic points and interconnection points

Optimisation of network performance

- \cdot Pressure monitoring via a sensor (optional) controlled and remotely powered by the data logger
- \cdot Service quality level measurement
- \cdot Monitoring of flows and volumes
- Intrusion or overflow alarms

ADVANTAGES OF THE SOLUTION

- Complete measurement kit: chlorine sensor, mounting device, data logger and pressure sensor (optional)
- \cdot Simplified in-pipe installation without service interruption
- Complete stand-alone solution for hydraulic control
- Integrated high-capacity antenna or optional use of an external antenna (FLEX version)
- \cdot Measurements with a resolution of 0.01 ppm
- · Sampling valve for chlorine sensor calibration
- \cdot Health certification ACS*

EASE OF USE

- Chlorine sensor insertion system on pipe without pressure drop
- Flanges suitable for pipes with outer diameter from 70 to 335 mm
- \cdot Graphical configuration of data logger and sensor from Softools software

MAIN CHARACTERISTICS:











*Consult your sales engineer for more details



Technical and functional characteristics

CHLORINE MEASUREMENT SENSO	DR:
Type of measurement	Active chlorine*
Measurement range	0.03-5 ppm
Measurement resolution	Resolution of 0.01 ppm
Material	PVC-U
Pressure measurement	Range between 0 and 8 bars
Temperature range	Between 0°C and 50°C - integrated thermal compensation
Flow	Minimum flow rate 0.05 m/s
Calibration	DPD-1
No disinfectant	24 hours maximum
Analogue signal	4-20 mA
Power supply	12 V remote power supply via the lithium battery of the LS42 data logger
Response time	50 s supplied by the data logger for the measurement
MOUNTING KIT:	
Outer diameter of the pipe	From 70 to 335 mm
Sensor support	Suitable for the insertion of the chlorine sensor
Compatible pipe types	Steel, fibre cement, cast iron, PE and PVC-O
Installation	Sensor insertion system on full pipe - No service interruption
Sampling	Sampling valve for sensor calibration
Pressure sensor connector	1¼" connector for CPR pressure sensor (optional)
Sealing	IP68 for all kit accessories
SOFREL LS42 DATA LOGGER:	
SOFREL LS42 DATA LOGGER: Mechanical design	Screw-free opening system for easy user access to SIM card and battery
SOFREL LS42 DATA LOGGER: Mechanical design Dimensions	Screw-free opening system for easy user access to SIM card and battery H 261 x L 155mm
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SOFREL LS42 DATA LOGGER: Mechanical design Dimensions Weight Operating temperature Sealing Power supply Battery life Configuration and diagnosis DI (Digital Inputs) AI (Analog Inputs) 2G/4G communication Versatile antenna (FLEX version)	Screw-free opening system for easy user access to SIM card and batteryH 261 x L 155mm1.1kg-20°C to +55°CEnhanced IP68 certification (200 days under 2 metres of water)Long-lasting internal lithium battery power supply3.5 years with 1 measurement per hour and 1 daily communication 2 years with 2 measurements per hour and 1 daily communication2/GC signal reception measurement and best operator test4 logic inputs for standard metering, signalling2 analogue inputs for SOFREL sensor or third-party pressure sensors Remote power supply of pressure sensors via 4-20 mA loop in 12 V or 20 VQuad-band CSM/CPRS/EDCE (850 MHz, 900 MHz, 1800 MHz, 1900 MHz) 4C LTE-M: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85/4 metre-long external antenna, IP68 certified
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*For a pH between 5 and 9



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