# **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 from DN60 to 300
- $\cdot$  Graphical configuration of data logger and sensor from Softools software

# MAIN CHARACTERISTICS:









Quality parameters Communication

Simplicity



\*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:	
Nominal diameter	From DN60 to DN300
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	1 ¼" 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
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\*For a pH between 5 and 9



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