ROCHESTER_LPG tank monitoring

SENSOR FUNCTIONS

This module is an ATEX device for monitoring **LPG tank levels using a junior or senior Rochester Hall-effect probe**; see references. It enables you to avoid stock-outs and anticipate replenishment.

The sensor communicates a ratiometric level value (converted into % gas level according to the Rochester abacus) only via the proprietary HR-Net protocol. To send data over the cellular network, it must be paired with one of the HR-Net/4G gateways below:

- CR100 Gateway (220V external power supply, 4G-Data)
- CR110 Gateway (Battery-powered, 4G - SMS)

Information can be viewed directly on the Desk & Sens platform and notifications, email or SMS alerts can be set up.

+ Local gateway

TECHNICAL SPECIFICATIONS OF THE SENSOR

Model	Value
Power supply	Lithium battery
Lithium battery	Around 10 years
Network	HR-Net
Maximum transmit power	12 dBm +/- 2 dBm
Maximum sensitivity	- 116 dBm
Frequency of readings	- With CR110: 2 daily readings - With CR100: 1 reading/hour
Measurement type	Rochester Hall effect probe
Compatible fluids	*Liquid gas, LPG, hydrogen, propane and butane.*

Model	Value
Dimensions	80 x 67 x 163 mm
Net weight material	330 g
Operating T°	-10°C;+40°C
Protection class	Enclosure: IP 68 and Sensor: IP 67
Cable length	5 and 10 metres
Certifications	RED Directive: 2014/53/EU RoHS II Directive: 2011/65/EU ATEX Directive: 2014/34/EU ATEX marking: II 2 G Ex ib IIB T4

USE CASES

Remote monitoring of liquefied gas levels in a tank via a Rochester probe.

Level alerts can be configured according to the monitoring system (consumption or fill monitoring) and received by SMS or e-mail (or both).

A history enables you to trace the evolution of your tank levels over the last month/week/day (or customised date).
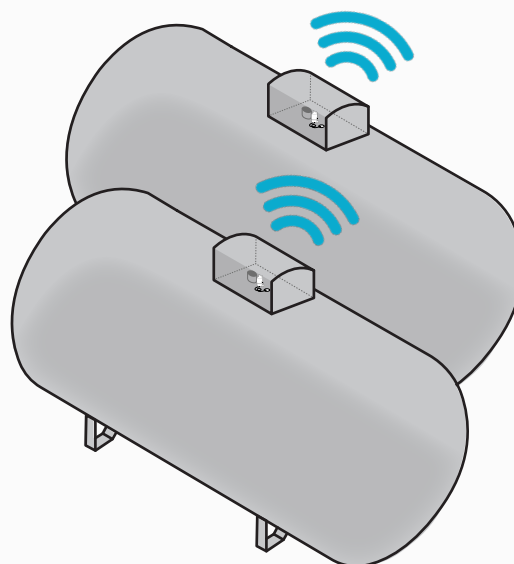
ADVANTAGES OF THE SENSOR

Easy remote monitoring of equipped sites from a professional interface.

Rapid identification of product shortages and implementation of a rapid restocking system.

Traceability and history of requests and actions at each site.

Alert system (email, SMS and push notification) to warn technicians/site managers to avoid stock-outs.

Create an order directly from your interface.

BUSINESS INFORMATION

Désignation commerciale	Product name	Item code
MODULE ROCHESTER JUNIOR	ROCHESTER-JUNIOR-868 ATEX	[CEMDGU203422]
MODULE ROCHESTER SENIOR	ROCHESTER-SENIOR-868 ATEX	[CEMDGU203410]
MODULE ROCHESTER 4" SENIOR	ROCHESTER-4IN-S-868 ATEX	[CEMDGU204331]
MODULE ROCHESTER 4" AXED	ROCHESTER-4"-M-AX-868 ATEX	[CEMDGU203397]
MODULE ROCHESTER 4" NOT AXED	ROCHESTER-4"-M-NAX-868 ATEX	[PRIPGU202952]
MODULE ROCHESTER 8" MAGNETEL AXÉ	ROCHESTER-8 IN -AX-868 ATEX	[CEMDGU203428
MODULE ROCHESTER 8" NOT AXED	ROCHESTER-8 IN-NAX-868 ATEX	[CEMDGU203429]