



**RCB**  
REMOTE CONTROL BOX

## Monitoring and Data Acquisition System



Automated, Connected, Smart.



# IIOT DEVICE TO ENHANCE THE INTEGRATION WITH AUTOMATED CONTROL SYSTEMS

Remote Control Box (RCB) is an accessory that enhances the integration of one or more analysis systems with the process or industrial control systems. RCB increases the functions of analytical instruments in terms of industrial automation (IIoT). It allows to measure and elaborate the parameters identified, correlating them with each other in order to predict future failures and intervene before they occur.

## RCB IS DESIGNED TO INTEGRATE AND INTERCONNECT MEASURING INSTRUMENTS WITH PRODUCTION PROCESSES

By collecting the data obtained from the measuring instruments on a single platform, the operator acquires greater awareness of the process development, planning strategic interventions in order to maximize profitability.

## APPLICATION

- Industrial automation of analytical instrumentation and sensors.
- Remote control of tools and accessories
- Calculation of the energy vectors (hydrogen, natural gas, biomethane, LPG gas) calorific value

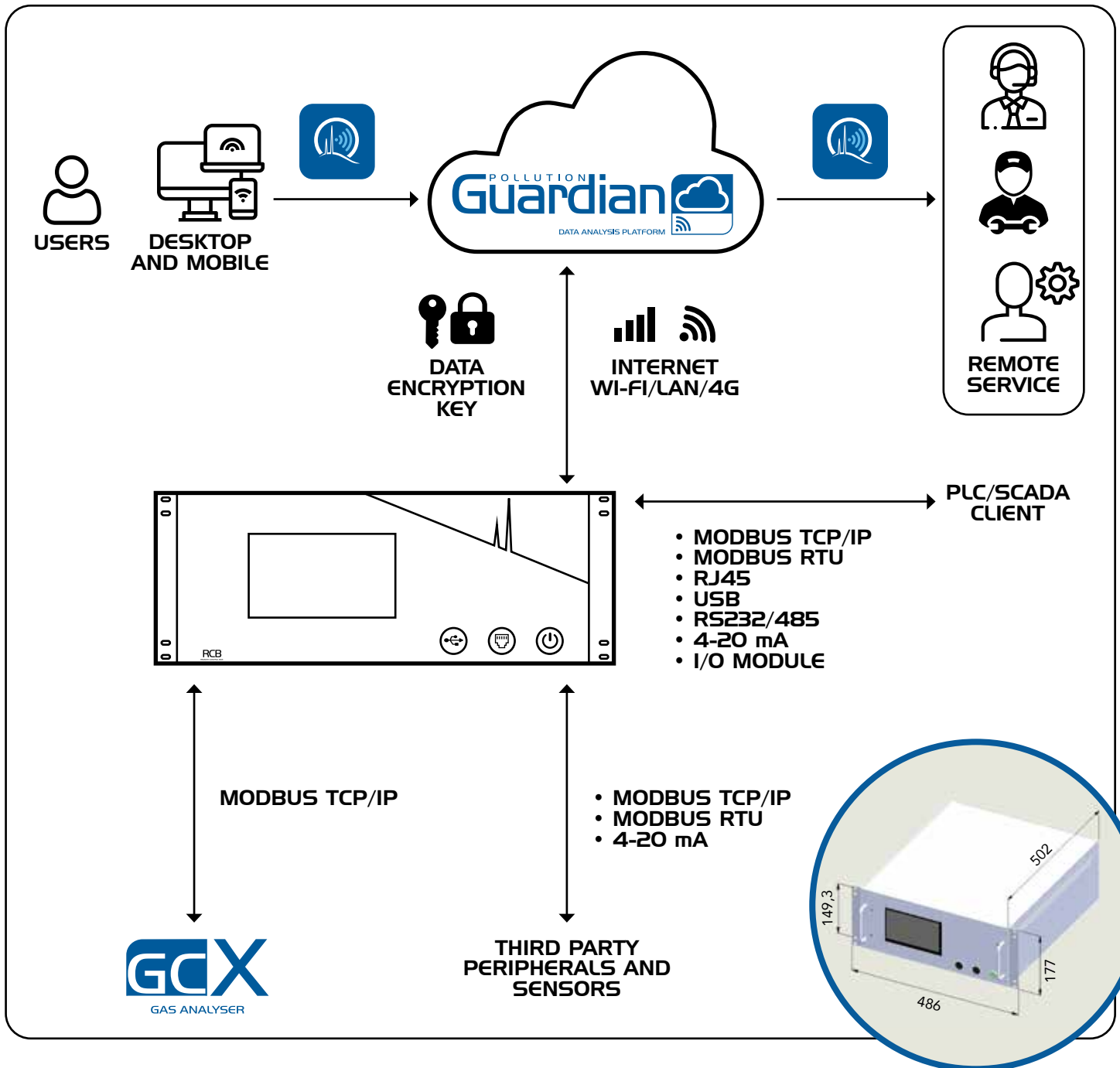


RCB implements the following functions:

- It works as an interface to connect the analytical systems to the process control systems (SCADA, PLC; etc.).
- It allows remote viewing and controlling of the connected analytical systems.
- It allows reading and managing sensors and peripherals, such as flow meters and valves, through a single interface, simplifying the operators management of the process.
- It simplifies and improves the usability of the large amount of data obtained, thanks to the opportunity to automatically generate graphs of the parameters of interest and KPI (Key Performance Index) process.
- It schedules automatic actions depending on the type of alarm set.
- It processes the analyses obtained from the gas chromatograph and performs the necessary calculations to obtain information on the energy characteristics of gases and allows communication of the data obtained with the volumes and remote-control systems in the cabins of Reduction and Measurement.

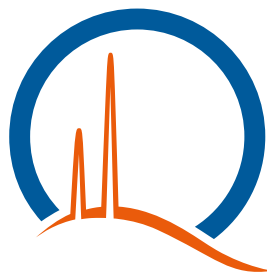
## MAIN FEATURES

- Remote control of the paired instruments
- Predictive plant maintenance
- Integration with automatic control systems for production processes
- Access to the "Pollution Guardian" Cloud service
- Instrument Diagnostics
- Opportunity to interconnect several instruments
- Configurable communication protocol
- Calculation of calorific value according to UNI EN ISO 6976:2017
- Individually configurable and customizable alarm thresholds for each



## TECHNICAL FEATURES

Dimensions	Rack Version: rack 19" (486mm) - 4U (177,8mm) - 550mm
Power Supply	110 - 220 Vac; 50 Hz
Power consumption	≤ 25 W
Basic Connections	Front Connection: n. 1 front RJ45 connection (LAN) n.1 front USB connection Back Connection: n.3 back RJ45 connection (3 LAN + 1 WAN) n.2 back USB connection
Optional connections	RS-232/485-0-10V-4-20 mA-AUX I/O
Display	Display TFT 7" touch-screen for connected instrumentation control
Connectivity	Wi-Fi, 4G
Operating temperature	0 - 40°C
Relative humidity	5-95% (without condensation)



Quality & Process

## THE ANSWER TO YOUR ON-SITE DETECTION CHALLENGES

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