

LEGIONELLA

*Chemical dosing systems for the prevention
and control of Legionella*

Your trusted partner in dosing solutions

About us

With a **legacy spanning decades**, Injecta specializes in the design and manufacture of dosing systems for diverse industrial sectors.

Safety is at the heart of our mission: we understand the risks associated with chemical handling, therefore we provide **solutions engineered to mitigate critical operational risks.**

Leveraging our **technical expertise**, we guide clients in **optimal material selection** and the **integration of dedicated safety systems.**



Anti-Legionella Systems

Legionella is a ubiquitous **microorganism** naturally present in various **aquatic environments**, both natural and artificial: **springs** (including thermal ones), **rivers, lakes, muds**, and moist **soils**. From these sources, it can easily reach artificial water networks such as city pipelines and building systems (tanks, pipes, fountains, swimming pools), which can promote its proliferation and spread, becoming true amplifiers of the bacterium and creating a potential risk to human health.

Due to its environmental diffusion, Legionella can cause **infections** in various collective environments where residence is temporary residence, such as **hospitals, accommodation facilities, cruise ships, exhibition** and **commercial centers**, where the presence of complex water systems increases the chances of contamination.

Importance of Water Treatment

Water treatment is a fundamental measure to prevent the **proliferation of Legionella** in the systems.

An adequate **chemical treatment** program, combined with automatic dosing systems, allows the control of water quality, maintenance of parameters within safe limits, minimization of health risks and ensure operational interruptions in the systems.



Response	Percentage
Yes	75%
No	25%



General Overview

STANDARD LEVEL		Volumetric system with single digital pump and pulse emitter counter
INTERMEDIATE LEVEL		Volumetric system with dual dosing pumps and flow sensor
PREMIUM LEVEL		Complete panel for control and dosing

Treatment Solutions

Volumetric System with Single Digital Pump

ATHENA MT



Materiali	PVDF Head Ceramic balls PTFE Diaphragm
Flow Rate	Manual adjustment of flow rate between 0 and 100%
Operating mode	Flow rate proportional to 4–20 mA signal Selectable analog signals 0/4–20 mA Digital signals 1:n, n:1, 1:c (batch) PPM Direct dosing
Power Supply	100÷240 Vac 50/60 Hz

WM-R



Single-jet water meters with pulse emitter and roller dial display, for cold water up to 30 °C

Dry Dial	
Pulses output	4 or 1 pulse/liter
Connections	½" ÷ 2" (13 mm ÷ 50 mm)
Nominal diameter	Up to 2" (50 mm)

AC.SF



Materials	PMMA
Seals	FPM
Fittings	4x6 / 8x12

AC VM



Materials	PVDF valve body, PTFE diaphragm
Seals	Available in FPM or EPDM
Tube Diameter	4-6 mm or 8x12 mm
Relief Pressure	0 ÷ 18 bar
Adjustable Back-Pressure	0 ÷ 5 bar
Bracket mounting	

Treatment Solutions

Volumetric System with Double Dosing Pump and Flow Sensor

HYDRA MT



Materials	PVC-C* Head Ceramic balls PTFE Diaphragm
Flow Rate	Manual adjustment of flow rate between 0 and 100%
Operating mode	Timed dosing through a programmable weekly timer PPM dosing Batch dosing
Power Supply	230 Vac 50 Hz

AC VM



Materials	PVDF valve body, PTFE diaphragm
Seals	Available in FPM or EPDM
Tube Diameter	4-6 mm or 8x12 mm
Relief Pressure	0 ÷ 18 bar
Adjustable Back-Pressure	0 ÷ 5 bar
Bracket mounting	

ATHENA MT



Materials	PVDF Head Ceramic Balls PTFE Diaphragm
Flow Rate	Manual adjustment of flow rate between 0 and 100%
Operating mode	Flow rate proportional to 4–20 mA signal Selectable analog signals 0/4–20 mA Digital signals 1:n, n:1, 1:c (batch) PPM Direct dosing
Power Supply	100÷240 Vac 50/60 Hz

AC.SF



Materials	PMMA
Seals	FPM
Fittings	4x6 / 8x12

Treatment Solutions

 Complete panel for control and dosing

HELIOS 03



Single-parameter instrument

Power Supply 100–240 Vac 50/60 Hz, 15 Watt
(electrical insulation class 1)

Operating mode 2 relay outputs
2 frequency outputs
2 analog outputs 4/20 mA

HELIOS 04



Single-parameter instrument

Power Supply 100 – 240 Vac 50/60 Hz

Operating mode **4 independent relays** (clean contact) for SetPoint, alarms, and washing routines (**On/Off, timed, PWM**)
2 independent frequency outputs with SetPoint and PropBand
2 analog outputs 4–20 mA

GEA R MT



Materials PVDF Head with anti-seepage system
PTFE diaphragm
Reinforced PP casing
Wall-mount bracket included

Operating mode Stroke manually adjustable from 1 to 100%
Frequency adjustable from display from 1 to 100% (up to 300 strokes/min)
Accuracy $\pm 2\%$

Range Flow Rate: 2.5–18 l/h
Accuracy: $\leq 2.0\%$
Maximum Pressure: 16 bar (232 psi)

Power Supply 100 - 240 Vac, 50/60 Hz

HYDRA MT



Materials PVC-C* Head
Ceramic Balls
PTFE Diaphragm

Operating mode Timed dosing via programmable weekly timer
PPM dosing
Batch dosing

Flow Rate Manual adjustment of flow rate between 0 and 100%

Power Supply 100 - 240 Vac, 50/60 Hz

ATHENA MT



Materials PVDF Head:
Ceramic Balls
PTFE Diaphragm

Flow Rate Manual adjustment from 0 and 100%

Operating mode Flow rate proportional to 4–20 mA signal
Selectable analog signals 0/4–20 mA
Digital signals 1:n, n:1, 1:c (batch)
PPM Direct dosing

Power Supply 100÷240 Vac 50/60 Hz

Accessories

E.PT 100 - NUT



Temperature sensor	
Temperature	0 ÷ 100 °C
Mechanical connection	1/2" threaded BSP
Cable length	1 m

E.PH



Materials	Epoxy
Membrane	Platinum wire

Technical Specifications

Parameter	pH
Measuring Range	2 ÷ 12 pH
Pressure	6 bar
Temperture	60°C
Cable	BNC connection, 6 m
Pressure	up to 6 bar

POTENTIOSTATIC SENSORS



Organic/inorganic chlorine	
2-electrode amperometric sensor, free chlorine, low pH dependency, 4–20 mA	
Chlorine dioxide	
Sealed-cell sensor, chlorine dioxide, automatic temperature compensation, 4–20 mA	
Hydrogen peroxide	
Amperometric sensor resistant to high concentrations of surfactants	
Minimal turbidity influence, 4–20 mA	

Technical Specifications

	Chlorine Sensor	Chlorine Dioxide (KP-DCL)	Hydrogen Peroxide (H2O2)
Measuring range	0-2 / 0-5 / 0-10 ppm	0-2 / 0-10 ppm	0-200 /0-500/0-20,000 ppm
pH	4-10	1-11	2-11
Temperature	0-45°C	0-45°C	0-45°C
Pressure	0-3 bar	0-1 bar	0-1 bar
Flow Rate	ca. 30 l/h	30-60 l/h	ca. 30 l/h
Connection	2 poles, cable not included	2 poles, cable not included	2 poles, cable not included

Accessories

AC.SE



High-strength tanks, ideal for dosing groups equipped with electromechanical or electromagnetic agitators and dosing pumps

- Materials

High-density polyethylene (HDPE)
- Chemical compatibility

Suitable for all chemical products commonly used in dosing systems

AC.VA



Containment tanks

- Materials

High-density polyethylene (HDPE)
- Structure

PVC monobloc, open-top design

AC.SU



Support plates

- Materials

PVC
- Structure

Designed and sized for mounting agitators and dosing pumps on tanks

AC.LA



- Materials

PVC/PP with suction tube in PVC Crystal
- Seals

Available in two different materials (FPM or EPDM)
- Equipment

Integrated foot valve and level probe

Technical specifications

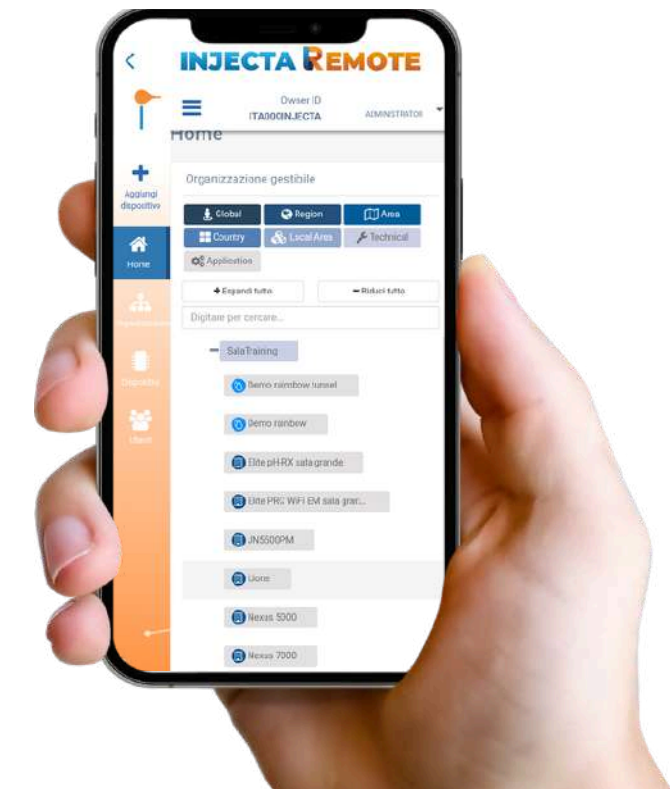
Dimensions	Tube 4×6	Tube 8×12	Tanks
450x22	✔		50 lt
450x34		✔	
650x22	✔		100 lt
650x34		✔	
900x22	✔		250 lt
900x34		✔	
1050x22	✔		300 lt
1050x34		✔	
1250x22	✔		500/1000 lt
1250x34		✔	

Injecta Remote

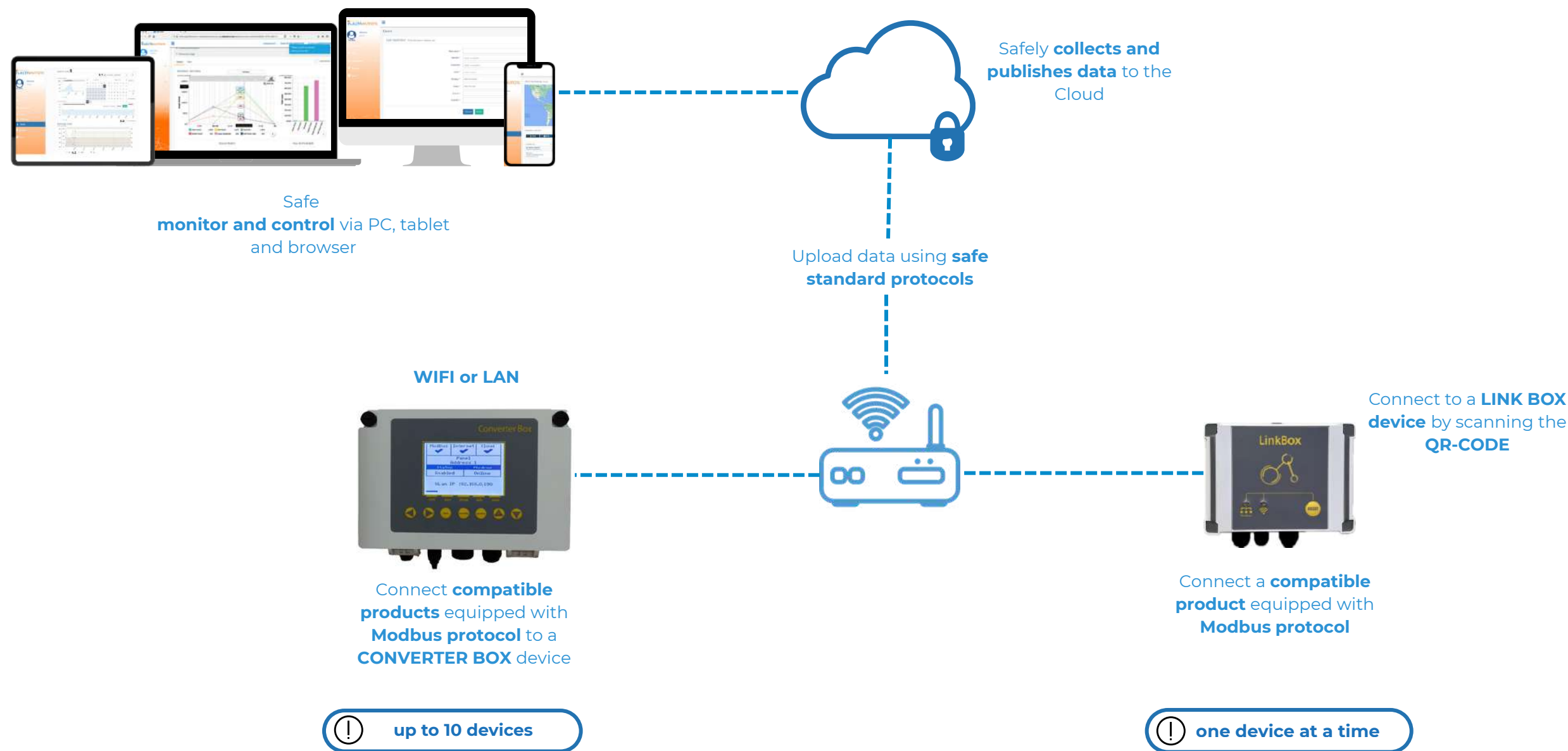
Injecta Remote is the advanced digital platform empowering users to monitor and control installations remotely, from any location globally.

Engineered for managers of **multi-site operations**, it provides a **unified interface** to **supervise processes, take immediate action, and optimize system performance**.

- Delivers centralized, real-time control
- Enables efficient, proactive management
- Facilitates remote diagnostics, minimizing the need for on-site visits
- Ensures a comprehensive user experience backed by continuous support and reliability



Remote Connection: Converter and Link Box



Serving as the gateway between Injecta systems and the **local network**, the Converter Box facilitates seamless data transfer to the Injecta Remote platform.

Compatible with any standard Internet connection, it **ensures secure remote control for authorized users**.

The device is capable of managing **up to 10 units** on a **shared RS485** wired network via the Modbus protocol.

Via an RS485 connection, the Link Box enables Modbus-equipped devices to interface seamlessly with a Wi-Fi network. Designed for dedicated single-device management, it ensures focused connectivity. An integrated QR code facilitates instant connection to the Link Box, granting users the ability to:

- Instantly access the **local WebServer**, even in the absence of an Internet connection.
- Configure **Internet settings**
- **Monitor operating values** in real time



Via Maestri del Lavoro, 1/A
02100 Rieti (RI)

0746 221438

info@injecta.com

injecta.com

