

ELECTROPLATING

*Dosing systems and safe handling of liquid
chemical substances*

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.**



Systems in electroplating

The electroplating sector includes all industrial processes of plating, coating, and surface treatment of metals through electrodeposition.

It encompasses activities such as:

- **Electroplating:** application of metallic coatings (e.g., nickel, chromium, copper) on metal objects for protection, aesthetics, or functionality.
- **Associated chemical processes:** chemical baths, pickling, electrolysis, and wastewater neutralization.

Because large quantities of chemicals are used, it is essential to properly manage wastewater and control pH.

Importance of water treatment

Wastewater treatment in the electroplating sector is essential to ensure **environmental safety** and **regulatory compliance**. A reliable automatic neutralization system, combined with **monitoring** and **pH** regulation systems, keeps parameters within safe limits at all times, ensuring environmental protection and operational continuity of the facilities.





NEXUS 3000



Single-parameter reader

Power supply

230Vac, 115Vac ou 24Vac 50/60Hz
Energy consumption:
3,6 VA (linear power supply)

Control functions

Two independent relays, remote alarm and probe setting
Sensor backwash control

- **Frequency output:** 0 ÷ 400 pulses/min, 100 ms pulse
- **Sortie en courant:** 4 ÷ 20 mA programmable (max load 500 Ω)
- **NAMUR alarm output:** 3.6 mA (low alarm) or 22 mA (high alarm)

NEXUS 5500



Multiparameter instrument

Power supply

100÷240 Vac

Control functions

Four independent relays (dry contact) configurable for Set Point, alarm, or probe washing routine
On/Off, temporisé ou proportionnel (PWM)

Two independent outputs, each with its own Set Point, pulse number, and proportional band (PropBand)

Two independent current outputs (4 ÷ 20 mA)

- ☒ pH
- ☒ ORP- Rx
- ☒ Conductivity
- ☒ Amperometric Chlorine
- ☒ Flow rates
- ☒ Temperature
- ☒ 4-20 mA input
- ☒ Remote connection
- ☒ Dimensions

Nexus 3000		Nexus 5500	
Accuracy	Range	Accuracy	Range
0-14	⊗	0-14	± 0,01 pH
± 2000 mV	⊗	± 2000 mV	± 1 mV
0,054 ÷ 200.000 µS	⊗	0,05 µS - 400 mS	± 2%
0,00 ÷ 5 ppm	⊗	0 ÷ 5 ppm	± 0,1 ppm
0÷99,999 L/s, L/min, L/H, m3/H, GPM	⊗	⊗	⊗
⊗	⊗	-50 ÷ 150 °C	PT100 ± 0.5°C, PT1000 ± 0.2°C
⊗	⊗	24 Vdc - max 30 mA	± 0,1 °C
⊗		✓	
Wall: 144 × 144 mm, IP65 Panel: 96 × 96 mm, front IP65, rear IP20		Wall: 220 × 144 × 122,5 mm Panel: 96 × 96 × 100 mm, Snail Lock mounting	

Dosing Pumps



ATHENA AM



Materials

Pump body: PVDF
Valves: Ceramic balls
O-Rings: FPM/EPDM
PTFE membrane
Wall bracket included

Flow rate

from 2.5 to 110 l/h

Pressure

from 0.1 to 20 bar

Power supply

Stabilized multi-voltage 100÷240 Vac
50/60 Hz with low consumption

GEA R MT



Materials

PVDF Pump head with integrated anti-seepage system
PTFE Membrane
Reinforced PP housing
Wall bracket included

Functions

Stroke manually adjustable from 1 to 100%
Frequency adjustable via display from 1 to 100% (up to 300 strokes/min)
Accuracy ±2%

Range

Flow rate between 2.5 and 18 l/h
Accuracy ≤ 2.0%
Max pressure: 16 bar (232 psi)

Power supply

100 - 240 Vac, 50/60 Hz

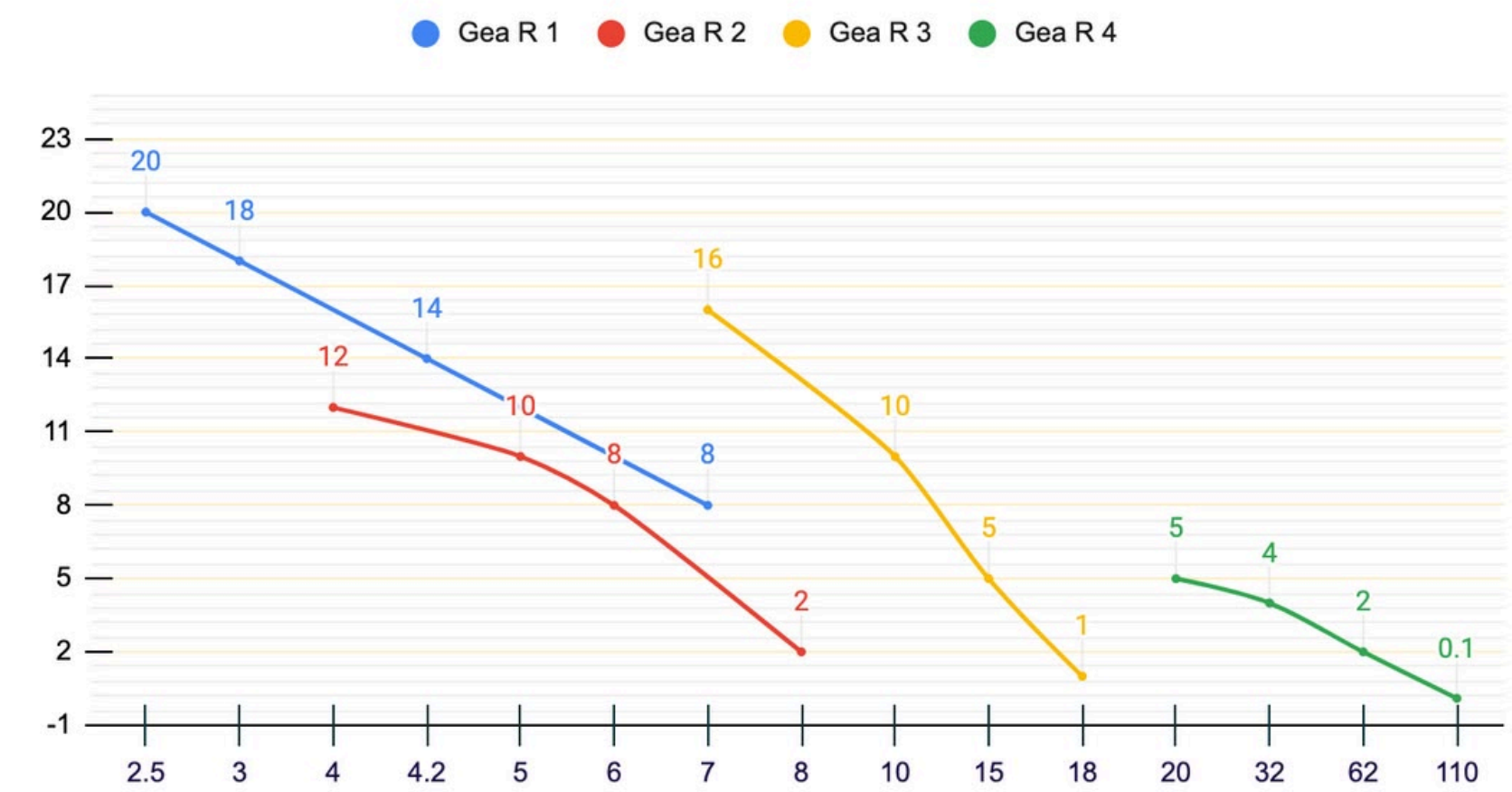
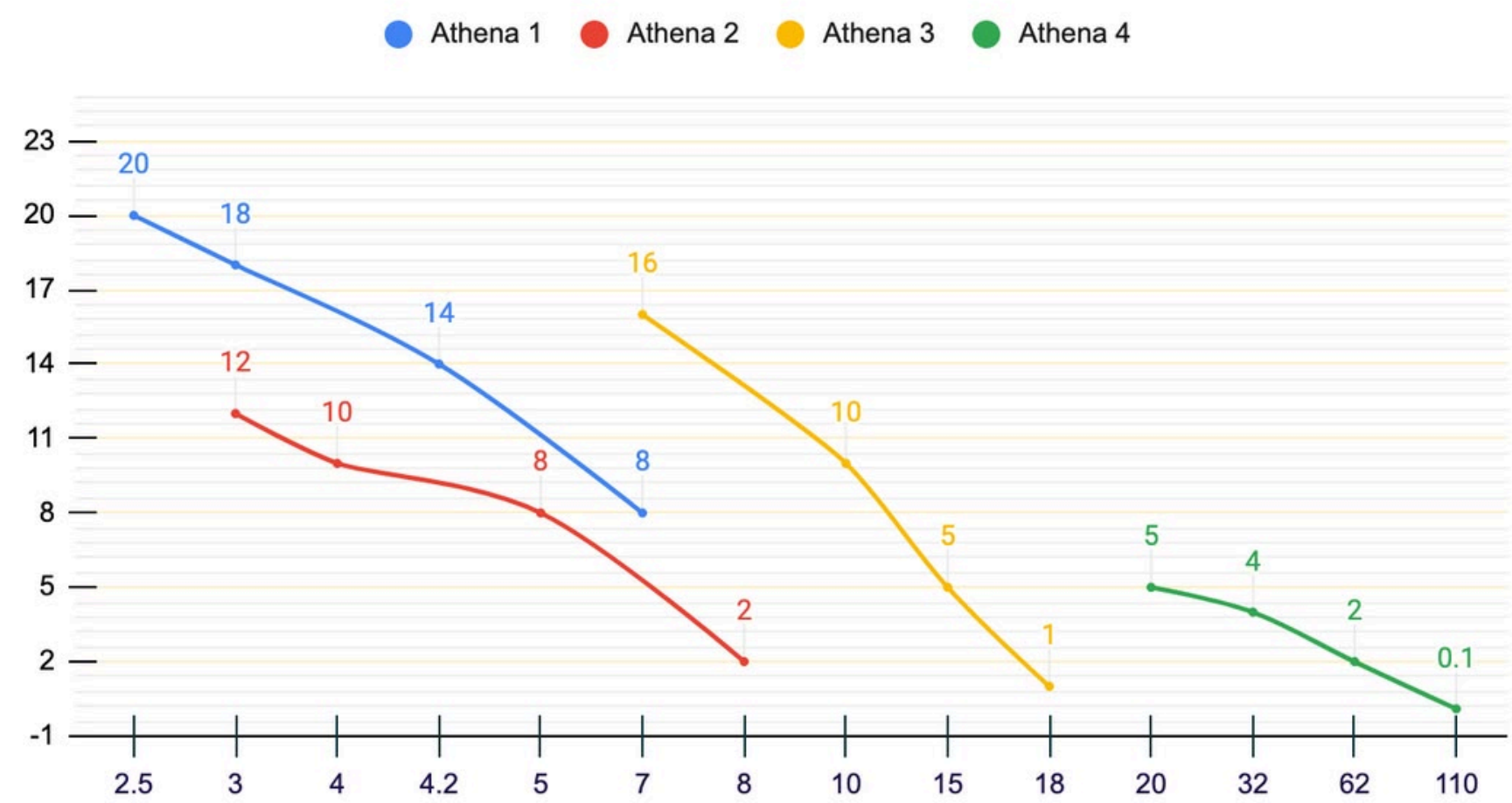
ATHENA

GEA

- ☒ SERIES 1
- ☐ SERIES 2
- ☐ SERIES 3
- ☐ SERIES 4

	Pressure	Flow Rate	CC/Stroke	Pressure	Flow Rate	CC/Stroke
SERIES 1	20 ÷ 14 bar	2,5 l/h ÷ 4,2 l/h	0,35 ÷ 0,58	20 ÷ 14 bar	2,5 l/h ÷ 4,2 l/h	0,35 ÷ 0,58
SERIES 2	12 ÷ 2 bar	3 l/h ÷ 8 l/h	0,31 ÷ 0,83	12 ÷ 2 bar	4 l/h ÷ 8 l/h	0,42 ÷ 0,83
SERIES 3	16 ÷ 2 bar	7 l/h ÷ 16 l/h	0,39 ÷ 1	16 ÷ 1 bar	7 l/h ÷ 18 l/h	0,38 ÷ 1
SERIES 4	5 ÷ 0,1 bar	20 l/h ÷ 110 l/h	1,11 ÷ 6,11	5 ÷ 0,1 bar	20 l/h ÷ 110 l/h	1,11 ÷ 6,11

Flow rate curves



Dosing Pumps



HYDRA PR



Materials	Pump head in PVC-C* Ceramic balls PTFE diaphragm
Flow rate	Manually adjustable and proportional based on pH or ORP, with temperature compensation
Power supply	110–230 Vac, 50/60 Hz

*PT100 temperature probe (on request)

Pressure	Flow rate	CC/Stroke
8 bar	5 l/h	160

E.PHV



E.PHV Probe (pH)	
Parameter	pH
Measuring range	0 ÷ 14 pH
Body	Glass
Membrane / Diaphragm type:	Open channel
Reference	GEL
Pressure	Up to 6 bar
Conductivity	≥ 5 µS/cm
Mechanical connection	PG 13.5 mm (1/4")
Electrical connection and cable	7 with BNC connector (not included), 5–10 m

Dosing pumps



TAURUS TM



Materials

Pump head: PP, PVDF, PVC, AISI
Seals: FPM, EPDM

Functions

- **ON/OFF**
- Manual flow rate adjustment via knob

Range

5,5 - 500 l/h
16 - 2 bar (AISI)

Power Supply

Single-phase motors
Three-phase motors

GX 0090



Materials

PVDF+CF
ALU
SS316
PP

Range

Max flow rate: 100 l/min
Max air pressure: 8 bar

Heights and Heads

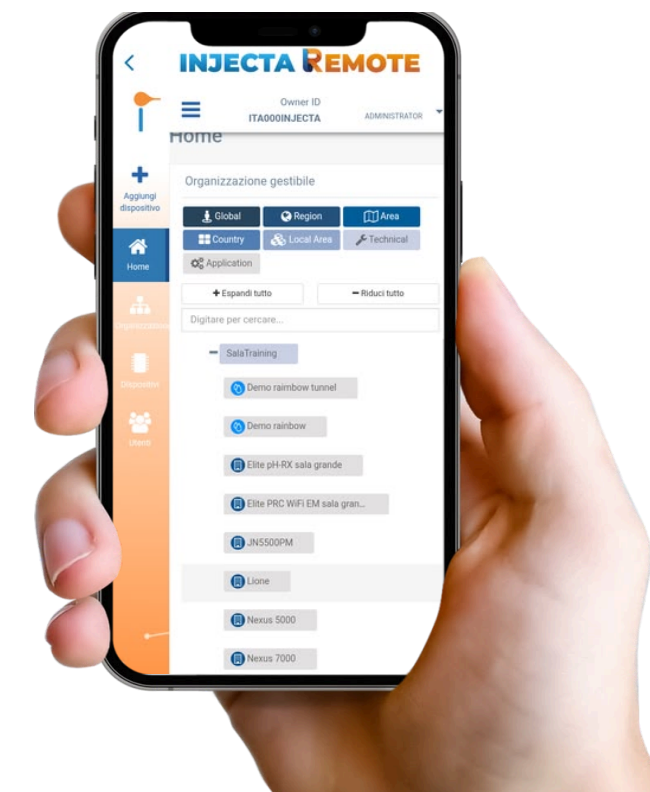
Max delivery head: 80 m
Max suction lift dry: 4 m
Max suction lift wet: 9.8 m
Max viscosity: 15,000 cps
Max particle diameter 4 mm

Injecta Remote

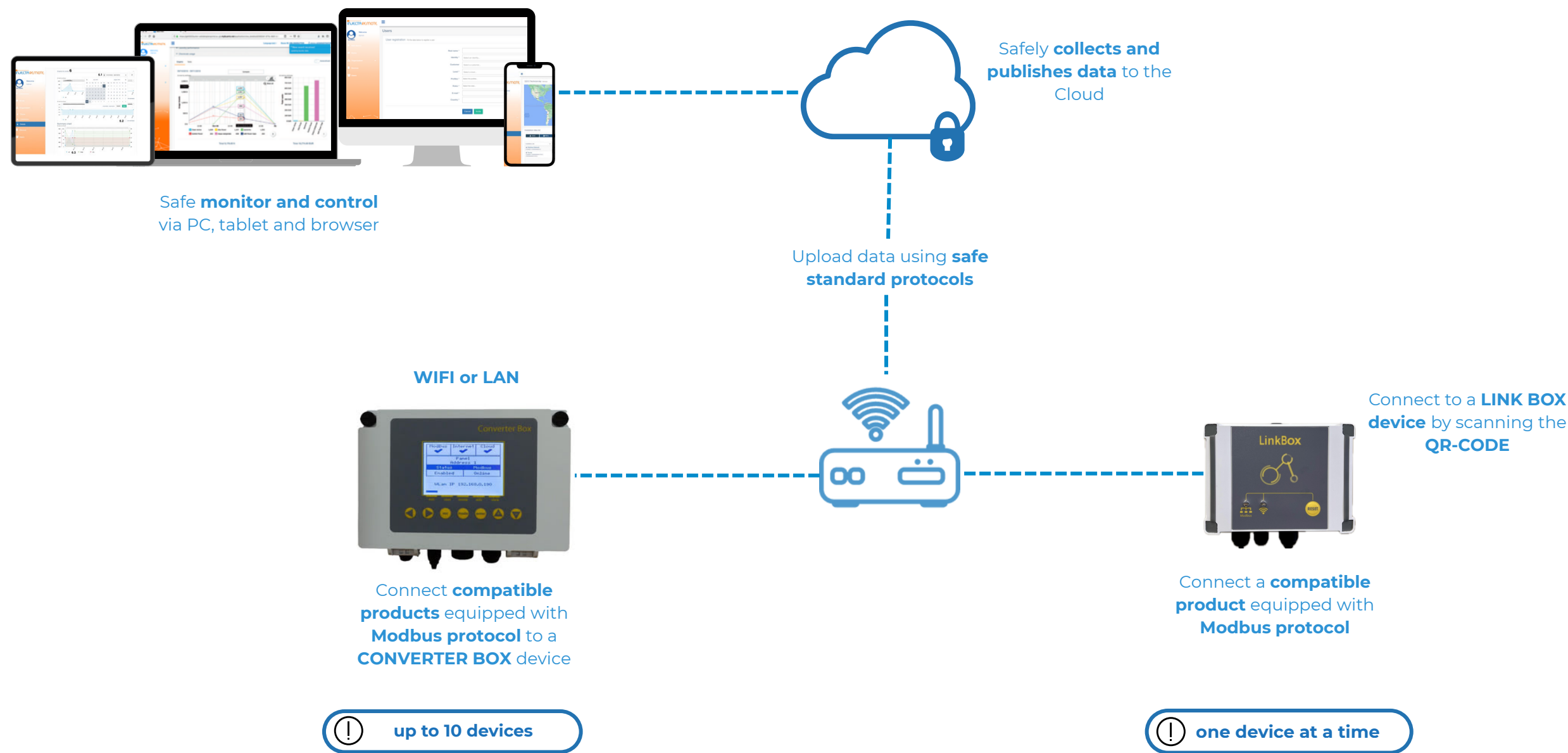
Injecta Remote is the advanced digital platform empowering users to monitor and control installations remotely, from any location globally.

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



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