

# FERTIGATION

*Chemical dosing systems for irrigation networks*

# Your reliable partner for 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.**



# Fertigation systems

In the landscape of modern agriculture, **fertigation** stands out as a benchmark for **efficiency** and **sustainability**. By delivering nutrients directly through irrigation water, this technique transcends traditional fertilization, evolving into a genuine precision nutrition system.

The success of this process hinges on a **high-performance dosing system**. Far from being a mere mechanical component, the dosing unit is the heart of the installation, ensuring **precise, consistent, and reliable crop nourishment**.

## Importance of Water Treatment

Effective water treatment stabilizes the **nutrient solution**, optimizing plant uptake while safeguarding the system's long-term integrity.

Key processes such as **filtration, pH regulation, conductivity monitoring, and disinfection** are vital to ensuring peak **performance** and **balanced crop development**.



# Dosing systems



## 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

## HYDROPUMP



### Materials

Body: PP or PVDF  
Seals: FPM, EPDM, AFLAS

### Operating mode

Volumetric hydraulic motor, integrated mixing, no electrical power required  
**Self-priming function**, ensuring suction of concentrate up to **4 m**

### Range

Flow rate: 10 l/h - 2.5 m<sup>3</sup>/h

Pressure: 0.3 - 6 bar

### Dosing

0.2 - 10% (depending on model)

## ATHENA PR



### Materials

Pump Head: PVDF  
Ceramic Balls  
Diaphragm: PTFE

### Operating mode

Digital proportional dosing  
pH and Redox (Rx) monitoring  
Power-On indicator, level alarm LED  
Level probe ready  
Automatic temperature compensation (optional probe)

### Range

pH 0÷14 -  
Rx -999÷+999 mV

## TAURUS TP



### Materials

Pump Head: PVC, AISI  
Seals:FPM, EPDM

### Functions

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

### Range

1,5 - 1000 l/h  
20 - 5 bar

### Power Supply

Single-phase motors  
Three-phase motors

## TAURUS TM



### Materials

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

### Functions

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

### Range

Flow rate: 5,5 - 500 l/h  
Pressure: 16 - 2 bar (AISI)

### Power Supply

Single-phase motors  
Three-phase motors

## ATLANTA TM



### Energy-saving three-phase motors

### Materials

SS316, PVC, PVDF, PP

### Operating mode

Timed, batch, manual or proportional to analogue or digital signals

### Range

Flow rate: up to 500 l/h  
Pressure: up to 10 bar



NEXUS 3000 CD



Single parameter reading

Power Supply 230Vac, 115Vac o 24Vac 50/60Hz

Operating mode

Two independent relays, alarm remote and back washing probe setting by software

- **One Frequency output signal:** 0 ÷ 400 pulse/min, pulse duration 100 msec
- **Outputs:** 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 50/60 Hz

Operating mode

- **Four independent relays** (dry contact) for SetPoint, alarm config andprobe washing routine setting by main menu. On/Off, Timed and proportional (PWM) routine function setting
- **Two frequency output** signal with two independent SetPoints, pulse numbers and PropBand setting
- **Two independent current outputs** (4 - 20 mA)

|               | Nexus 3000                                                                                       |          | Nexus 5500                                                                                           |                               |
|---------------|--------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------|-------------------------------|
|               | Range                                                                                            | Accuracy | Range                                                                                                | Accuracy                      |
| Conductivity  | 0,054 ÷ 200.000 µS                                                                               | ⊗        | 0,05 µS - 400 mS                                                                                     | ± 2%                          |
| pH            | 0-14                                                                                             | ⊗        | 0-14                                                                                                 | ± 0,01 pH                     |
| Temperature   | ⊗                                                                                                | ⊗        | -50 ÷ 150 °C                                                                                         | PT100 ± 0.5°C, PT1000 ± 0.2°C |
| Input 4-20 mA | ⊗                                                                                                | ⊗        | 24 Vdc - max 30 mA                                                                                   | ± 0,1 °C                      |
| Flow Rates    | 0÷99,999 L/s, L/min, L/H, m3/H, GPM                                                              | ⊗        | ⊗                                                                                                    | ⊗                             |
| Remote ready  | ⊗                                                                                                |          | ✔                                                                                                    |                               |
| Dimensions    | Wall mounting size: 144 × 144 mm, IP65<br>Panel mounting size: 96 × 96 mm, front IP65, rear IP20 |          | Wall mounting size: 220 × 144 × 122,5 mm<br>Panel mounting size: 96 × 96 × 100 mm, Snail Lock System |                               |

# Accessories

## PSD4 B



By-Pass Probe holder

3 probes to measure: PH, ORP, EC, DO, °C/°F

**Pressure** up to 5 bar

**Temperature** max 40°C

**Range pH** 2,7 ÷ 12 pH

## CTK1



Conductivity sensor

**Materials** Body: PP  
Electrodes: SS316 L  
Temperature sensor: PT100

**Range** Conductivity measurement: 5 – 5,000 µS/cm  
Cell constant: K = 1 cm; C = 1 cm<sup>-1</sup>  
Maximum pressure: 6 bar

**Temperature** 0 – 80 °C

## E.CD K1-G



Conductivity Probe (Graphite)

**Materials** Body: Epoxy  
Electrodes: Graphite  
Temperature sensor: PT100

**Range** Measurement: 5 – 20,000 µS/cm  
Cell constant: K = 1 cm; C = 1 cm<sup>-1</sup>  
Maximum pressure: 7.5 bar

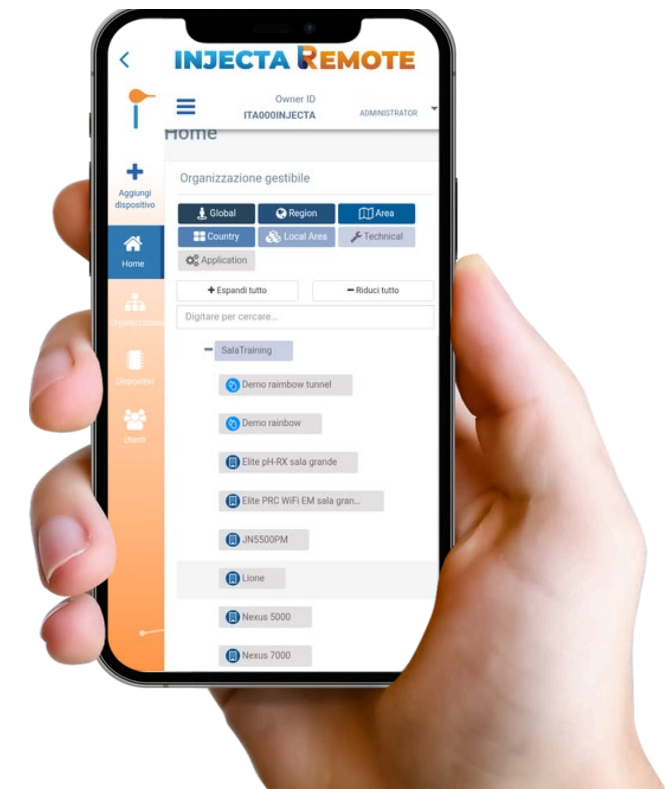
**Temperature** 0 – 70 °C

# Injecta Remote

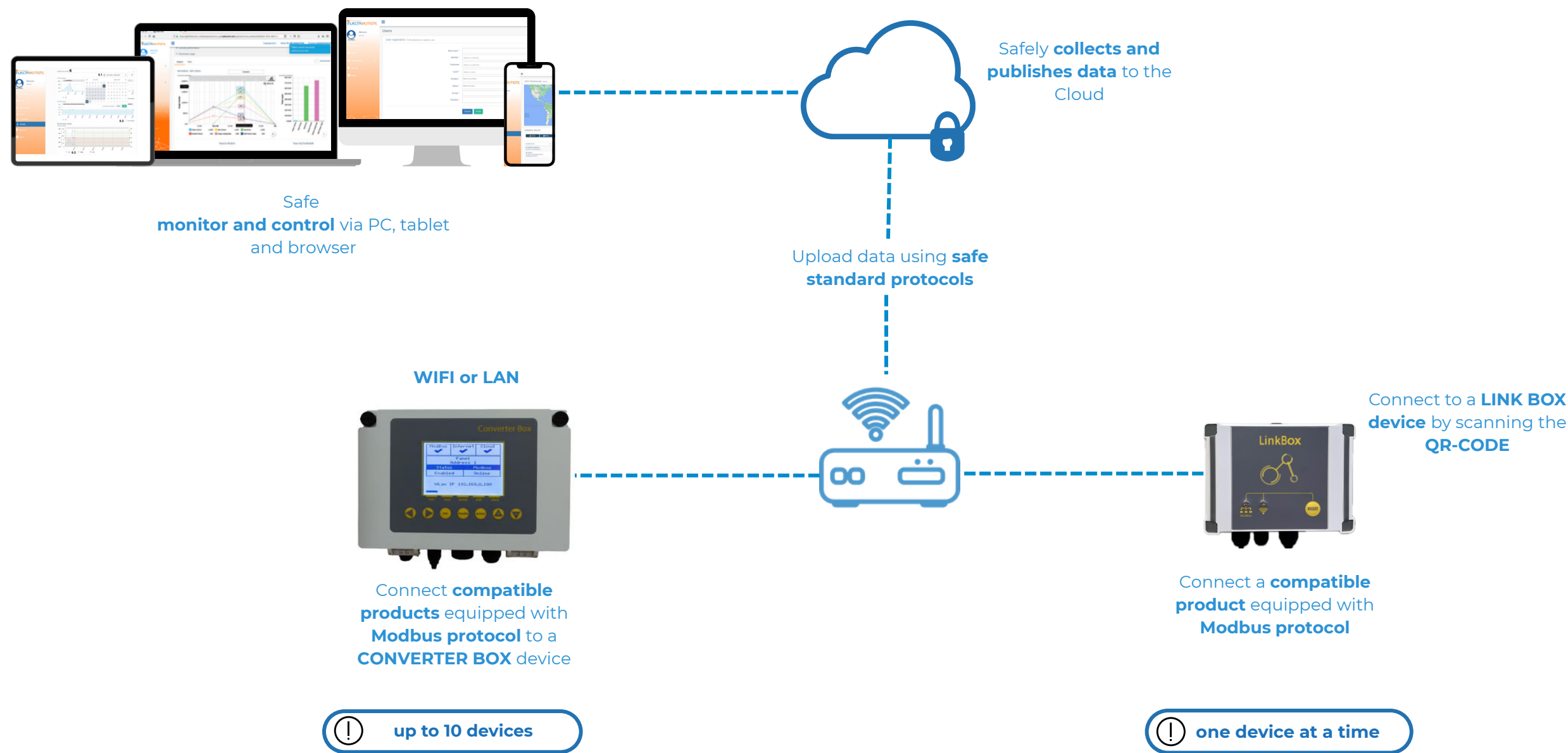
**Injecta Remote** is the advanced digital platform empowering users to monitor and control installations remotely, from any location globally.

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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