NEXUS

Measurement and
control instruments



SERIES

INJECTA
the perfect dosing

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Product overview

pH ORP EC OX FW CL PAA H_2O_2 BR O_3 TB SS °C°F

		Nexus 2000	Nexus 3000	Nexus 5000	Nexus 5500	Nexus 7000	Nexus 8000
							
Parameter	Single	•	•	•			
	Double				•		
	Multiparameter					•	•
Number of param eter connections	1	•	•	•			
	2				•		
	4					•	
	9						•
Installation	DIN Rail	•					
	Panel		•	•	•		
	Wall	•	•	•	•	•	•
Connection	RS485			•	•	•	•
	Wi-Fi			•	•	•	•

Applications



Fertigation



Cooling towers



Reverse osmosis



Industrial water treatment



Drinking water treatment



Waste water treatment



Commercial swimming pools



Legionella



Heating systems and boilers

Nexus 2000

The Nexus 2000 represents the most advanced solution designed for complete monitoring of water treatment processes.
The range combines high measurement accuracy, reliable control, and intuitive interfaces, meeting the increasingly complex needs of the sector.

Waterproof version
(144x144)



Waterproof version
(96x96)



Panel version
(48x96x100)



DIN version
(6 Modules)



Technical features

FEATURES	DESCRIPTION	SPECIFICATIONS
Single measurement	From the list below	Single channel
Calibration	Single-point or two-point	Guided calibration routine (wizard)
Temperature measurement	Compensation or output activation	PT100 Sensor
Reed input	Hold function (signal hold)	Dry contact
2-relay device	Normally open (NO) state	10A 250V (dry contact)
Single 4–20 mA channel	Analog current output signal	Max load 500 ohm
Display	Backlit alphanumeric LCD	LCD 2x16
Power supply	24 VCA; 115 VCA; 230 VCA	CE Class II (no grounding required)
Housing / Casing	DIN rail (6 modules) 48 x 96 mm	DIN rail mounting:IP40 Panel mounting:IP40



PARAMETER	MEASUREMENT RANGE	RESOLUTION
pH	0÷14,00 pH	0,01 pH
Redox (ORP)	±1.500 mV	1 mV
Conductivity	0÷200 mS	
Temperature	0÷100 °C	±1°C

Nexus 3000

Instrument designed for single-parameter measurement, with isolated measurement inputs, ideal for both water treatment applications and industrial environments. The controller features an intuitive interface with a navigation bar, allowing easy access to all menus.

Waterproof version

(144x 144)



Panel version

(96x96)



Technical features



MEASUREMENT	RANGE	NOMINAL ACCURACY
pH	0 - 14 pH	± 0,01 pH
ORP (Redox)	± 2.000 mV	± 5 mV
Electrical conductivity	0,054 - 200.000 µS	± 5 %
Dissolved oxygen	0 - 20 ppm	± 2 %
Flow rate	0 – 99.999 l/s	± 0,5 Hz
Amperometric chlorine	0 – 5 ppm	± 0,1 ppm
Potentiostatic chlorine	0 – 200 ppm	± 0,01 ppm
Peracetic acid	0 – 99.000 ppm	± 0,01 ppm
Hydrogen peroxide	0 – 99.000 ppm	± 0,01 ppm
Bromine	0 – 99.000 ppm	± 0,01 ppm
Ozone	0 – 99.000 ppm	± 0,01 ppm
Temperature	0 – 100 °C	± 1 °C

Technical features

FEATURES	DESCRIPTION	SPECIFICATIONS
Single measurement	From the list above	Single channel
Calibration	Single-point or two-point	Guided calibration routine (wizard)
Temperature measurement	Compensation or output activation	PT100 or PT1000 Sensor
Reed Input	Hold function	Dry contact
2-relay device	Normally open state	5A – 250V (Dry contact)
Solid-state relay (SSR)	Frequency output signal	1–400 pulses/minute
Single 4–20 mA channel	Analog current output signal	Max load 500 ohm
Display	Backlit graphic display	128 x 128 pixels
Power Supply	24 VCA; 115 VCA; 230 VCA	CE Class II (no grounding required)
Housing	96 x 96 mm 144 x 144 mm	Panel mounting –IP65 (front) Wall mounting –IP65

Nexus 5000

CONVERTER BOX

LINK BOX

Instrument designed for single-parameter measurement, ideal for advanced monitoring and PID control in water treatment systems. Thanks to its intuitive graphical interface and flexible outputs,it provides a complete solution for accurate management of complex plants.

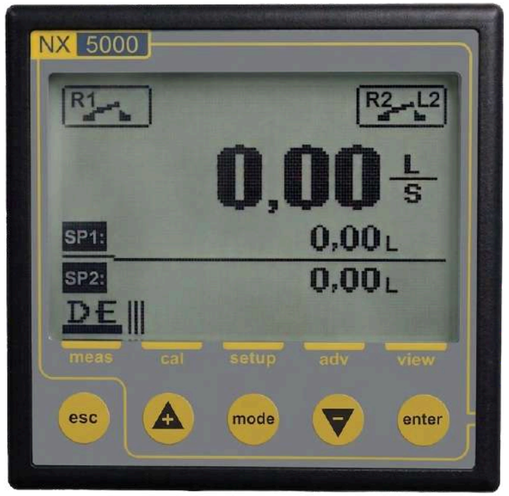
Waterproof version

(144x 144)



Panel version

(96x96)



Technical features



MEASUREMENTS	RANGE	NOMINAL ACCURACY
pH	0 – 14 pH	±0.1 pH
ORP	±1.500 mV	±5 mV
Electrical conductivity	0 ÷ 200 mS*	±5 %
Temperature	0 ÷ 100 °C	±1°C

*The conductivity range dependson the determination of the cell constant

Technical features

FUNZIONALITÀ	DESCRIPTION	SPECIFICATIONS
Single measurement	From the list above	Single channel, high precision
Calibration	Single-point or two-point	Guided calibration routine (wizard)
Temperature measurement	Compensation or output activation	PT100 or PT1000 Sensor
Voltage input	Hold function	24 VCA
Reed input	Hold function	Dry contact
Serial port	RS485 Protocol	Modbus RTU/ASCII
2-relay device	Normally open state	5A - 250V (dry contact)
2 solid-state relays	Frequency output signal	1 - 400 pulses/minute
Two 4–20 mA channels	Analog current output signal	Max load 500 ohm
Display	Color backlit graphic display	128 x 128 high-contrast pixels
Power supply	12 - 32 Vdc / 24 VCA o 100 - 240 VCA	CE Class II (no grounding required)
Protective housing	96 x 96 mm	Panel mounting – IP65 (front)

Nexus 5500

CONVERTER BOX

LINK BOX

Compact and versatile multiparameter instrument, designed for advanced monitoring and control in water treatment applications.
Featuring high measurement resolution and IP65 protection rating, it represents the ideal solution for complex industrial and civil applications.

Waterproof version
(220x144)



Panel version
(96x96)



Technical features



FEATURES	RANGE	NOMINAL ACCURACY
pH	0 – 14 pH	± 0,01 pH
ORP	± 2.000 mV	± 1 mV
Electrical conductivity	0,054 – 200.000 µS	± 1 %
Dissolved oxygen	0 – 20 ppm	± 1 %
Flow rate	0 – 99.999 l/s, l/m, l/h, m^3/h, GPM	± 0,5 Hz
Chlorine	0 – 200 ppm	± 0,01 ppm
Peracetic acid	0 – 99.000 ppm	± 0,01 ppm
Hydrogen peroxide	0 – 99.000 ppm	± 0,01 ppm
Bromine	0 – 99.000 ppm	± 0,01 ppm
Ozone	0 – 99.000 ppm	± 0,01 ppm
Turbidity	0 – 4.000 NTU	± 1 %
Suspended solids	0 – 30 g	± 1 %
Temperature	-50 – 150 °C	± 0,1 °C

Technical features

FEATURES	DESCRIPTION	SPECIFICATIONS
Dual measurement	Combination from the list above	Dual channel,high precision
Calibration	Single-point or two-point	Guided calibration routine (wizard)
Temperature measurement	Compensation or output activation	PT100 or PT1000 sensor
Reed input	Hold function	Dry contact
Serial port	RS485 protocol	Modbus RTU/ASCII
4-relay device	Normally open state	5A - 250V (dry contact)
2 solid-state relays	Frequency output signal	1- 400 pulses/minute
Two 4–20 mA channels	Analog current output signal	Max load 800 ohm
Display	Color backlit graphic display	128×128 high-contrast pixels / 240×128 pixels
Power supply	100 - 240 VCA	CE Class II (no grounding required)
Housing (Box)	96 x 96 mm / 220 x 144 mm	Panel mounting –IP65 (front) / wall mounting

Nexus 7000

CONVERTER BOX

Compact and versatile multiparameter instrument, designed for advanced water treatment control.
Thanks to its intuitive interface and wide connectivity, it enables complete and precise management of key physicochemical parameters.

Wall mounting

(278 x 285 x 140)



Technical features

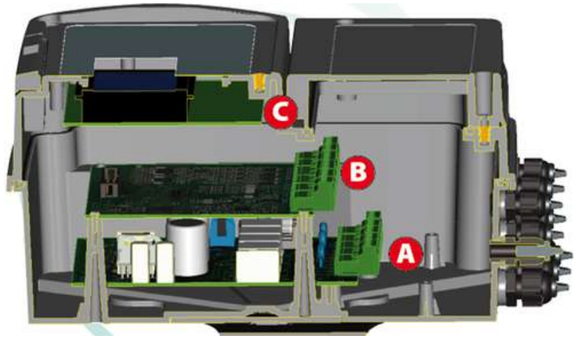


MEASURES	RANGE	NOMINAL ACCURACY
pH	0–14 pH	± 0,01 pH
ORP	± 2.000 mV	± 1 mV
Electrical conductivity	0,054–200.000 µS	± 2%
Dissolved oxygen	0 – 20 ppm	± 2%
Flow rate	0 – 99.999 l/s	± 0,5 Hz
Chlorine	0 – 200 ppm	± 0,01 ppm
Peracetic acid	0 – 99.000 ppm	± 0,01 ppm
Hydrogen peroxide	0 – 99.000 ppm	± 0,01 ppm
Bromine	0 – 10 ppm	± 0,01 ppm
Ozone	0 – 99.000 ppm	± 0,01 ppm
Temperature	0 – 100 °C	± 0,2 °C

Technical features

FEATURES	DESCRIPTION	SPECIFICATIONS
		Multiple measurement channels
Calibration	Single-point or two-point	Guided calibration procedure
Temperature measurement	Measurement compensation or output activation	PT100 sensor
Voltage input	"Hold" function	24 Vca
Reed input	"Hold" function	Dry contact
Serial port	RS485 protocol	Modbus RTU/ASCII
6 output relays	Normally open (NO) state)	Up to 4 powered 10A–250 VCA;2 dry contact 10A
2 solid-state relays	Frequency output signal	1- 120 pulses/minute
2 4–20 mA channels	Analog current output signal	Max load 500 Ohm
Display	Alphanumeric display	LCD 4 x 20 characters
Power supply	100 - 240 VCA	CE Class I (grounding required)
Housing	278 x 285 x 140 mm	Wall mounting with bracket – IP65 protection

Nexus 7000 Components



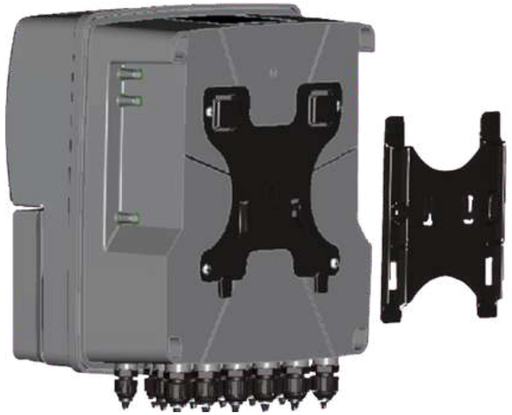
COMPONENTS

- Power Supply Circuit
- Control Circuit
- Display Circuit



COMPONENTS

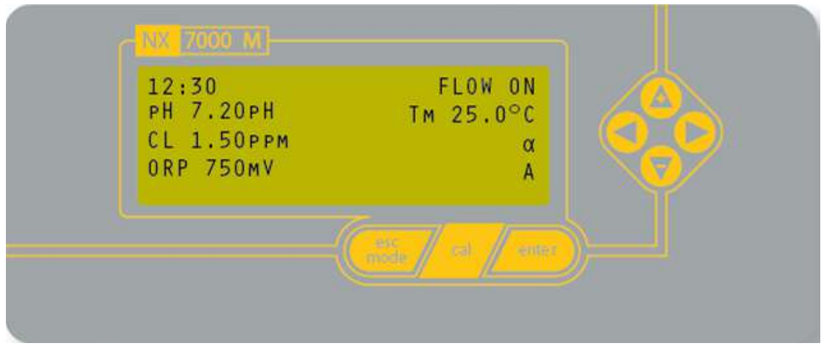
- Spacious terminal block compartment, accessible by removing the front cover and isolated from the rest of the enclosure



COMPONENTS

- Wall-Mounting Bracket

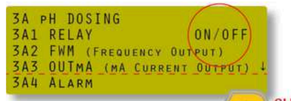
Panel and Settings



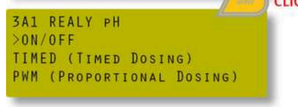
CONTROL PANEL

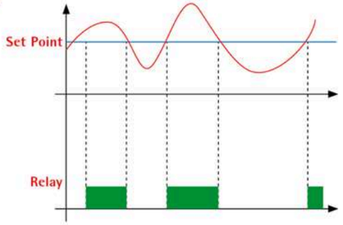
- Esc/Mode Key
- Cal Key
- Enter Key
- "Esc + Enter" Programming Function
- Keypad Controls
- Display (4 lines × 20 characters)

Panel and Settings



MODE CLICK





ON/OFF Dosing By Relay		
ITEM	DEFAUL VALUE	RANGE
Set point	7,20 pH	0÷14 pH
Time Dosing	Acid	Acid/Alka
Hysteresis	Off	0.10÷3 pH
Hysteresis Time	Off	1÷900 Sec
Delay Start	Off	1÷900 Sec
Delay End	Off	1÷900 Sec

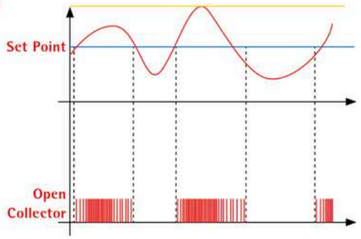
RELAY OUTPUT SET POINT CONFIGURATION

- Through the Relay menu, it is possible to control the analog dosing pump
- In this example, the pump operates in relay mode



CLICK

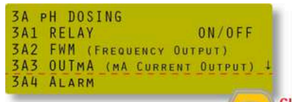




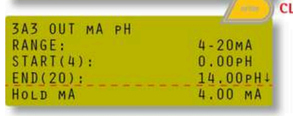
PROPORTIONAL DOSING By Frequency Output		
ITEM	DEFAUL VALUE	RANGE
Set point	7,20 pH	0÷14 pH
Time Dosing	Acid	Acid/Alka
Pulse	20	20÷120 pulse/min
Proportional Band	0.30	0,30÷3 pH

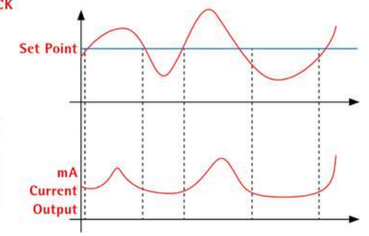
FREQUENCY OUTPUT CONFIGURATION

- Through the FWM (Frequency Signal Output) menu, it is possible to control the dosing pump.
- In this example, the pump dosage is proportional to the frequency signal.
-



CLICK





PROPORTIONAL DOSING By mA Current Output		
ITEM	DEFAUL VALUE	RANGE
Range 0/4÷20mA	4÷20 mA	0/4÷20 mA
Start (4 mA)	0,00 pH	0,00÷14,00 pH
End (20 mA)	14,00 pH	14,00÷0,00 pH
Hold mA	4,00 mA	0,00÷20,00 mA

CURRENT OUTPUT CONFIGURATION

- Through the mA Current Output menu, it is possible to control the dosing pump
- In this example, the pump dosage is proportional to the current signal

Nexus 8000

CONVERTER BOX

LINK BOX

Nexus 8000 is a controller for monitoring and managing up to nine parameters in cooling and evaporative towers, where accuracy and repeatability are essential.
The intuitive Nexus 8000 interface simplifies calibration and configuration of measurement and dosing parameters.

Wall mounting

(220 x 144 x 123)



Technical features



MEASURES	RANGE
pH	0.00 a 14.00 pH
ORP	± 1,000 mV
Electrical conductivity	0.0 µS - 20,000.0 µS
Free Chlorine	0 - 0.05ppm / 0 - 2 ppm / 0 - 5 ppm / 0 - 10ppm / 0 - 200 ppm
Total Chlorine	0 - 2 ppm / 0 - 5 ppm / 0 - 10 ppm
Combined Chlorine	
Flow rate	0 to 10,000 litri/sec
Analog input (4-20 mA)	-99,999 - 99,999 ppm
Temperature	from 0 to 100°C (PT100 and PT1000 probe input)

Technical features

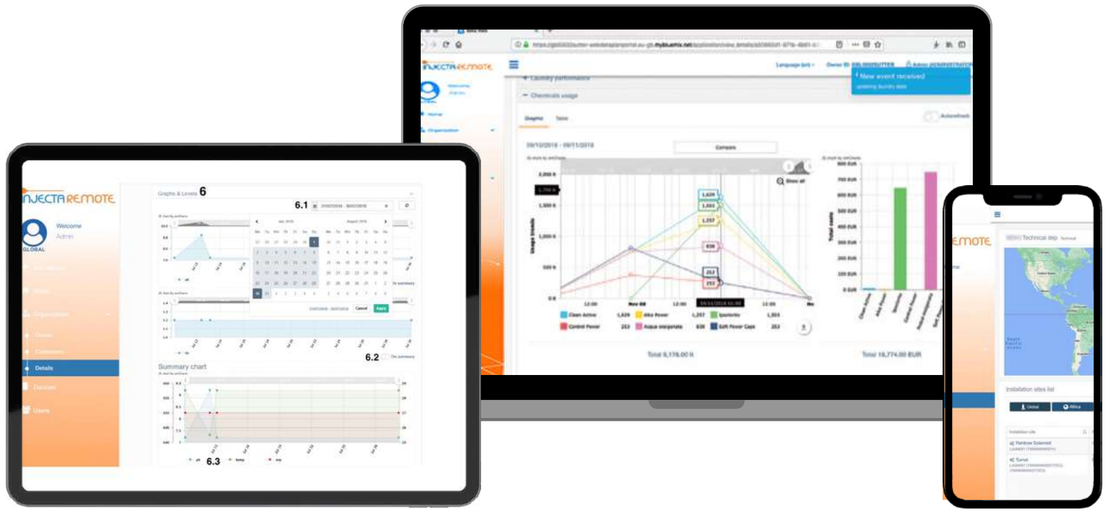
FEATURES	DESCRIPTION
Data Archive	• Internal Flash memory 64 Mbit (500,000 records) • Recording interval:from 01:00 to 99:99 min • Type:Circular (F.I.F.O.) or Fill mode • Tabular / graphical view with min/max/average values • Zoom function
PID regulation on analog mA outputs	Functions:P-PI-PID (analog or digital output).Proportional range:0 ± 500%
8 Analog Outputs	Freely programmable with PID option
8 Relay Outputs	ON/OFF set point:hysteresis/direction and work/pause time setting (000–999 s) Max load 1A 230 VCA
Digital Alarm Output	Alarms:instrument faults,min/max,set point delay,dwell time,timed calibration alerts. Display of last calibration date/time
Display	7” TFT LCD color graphic display,800×480 RGB,16:9 resistive touchscreen
Programming	Data entry via touchscreen
Languages	Italian,English,French,German,Spanish,Portuguese

Technical features

FEATURES	DESCRIPTION
Analog outputs	8 programmable outputs:0/4–20 mA Galvanic isolation:1kV opto-isolated Max load:500 ohm Second alarm output:NAMUR 2.4 mA
Relay outputs	8 relay outputs (changeover contacts),usable as NO.Resistive load max 1A at 230 VCA
Digital input	1input for dosing inhibition (FLOW) or wash cycle activation (WASH) Input voltage:24 Vdc/ac,max consumption 10 mA
3 Analog inputs	4-20 mA (chlorine2,chlorine total,programmable channel) and 4-20 mA freely programmable
1 input pH	For analog pH electrode
1 input ORP	For analog ORP electrode
1 input	For temperature sensor (PT100 or PT1000
1 USB port	For firmware update / data download
Power supply / Electric protection	• Power supply 90-240 VCA/dc 47-63Hz • Transformer isolation 4KV • Average consumption 20W • Electrical protection:EMI/RFI CEI-EN55011-05/99

Remote Instrument Monitoring and Control

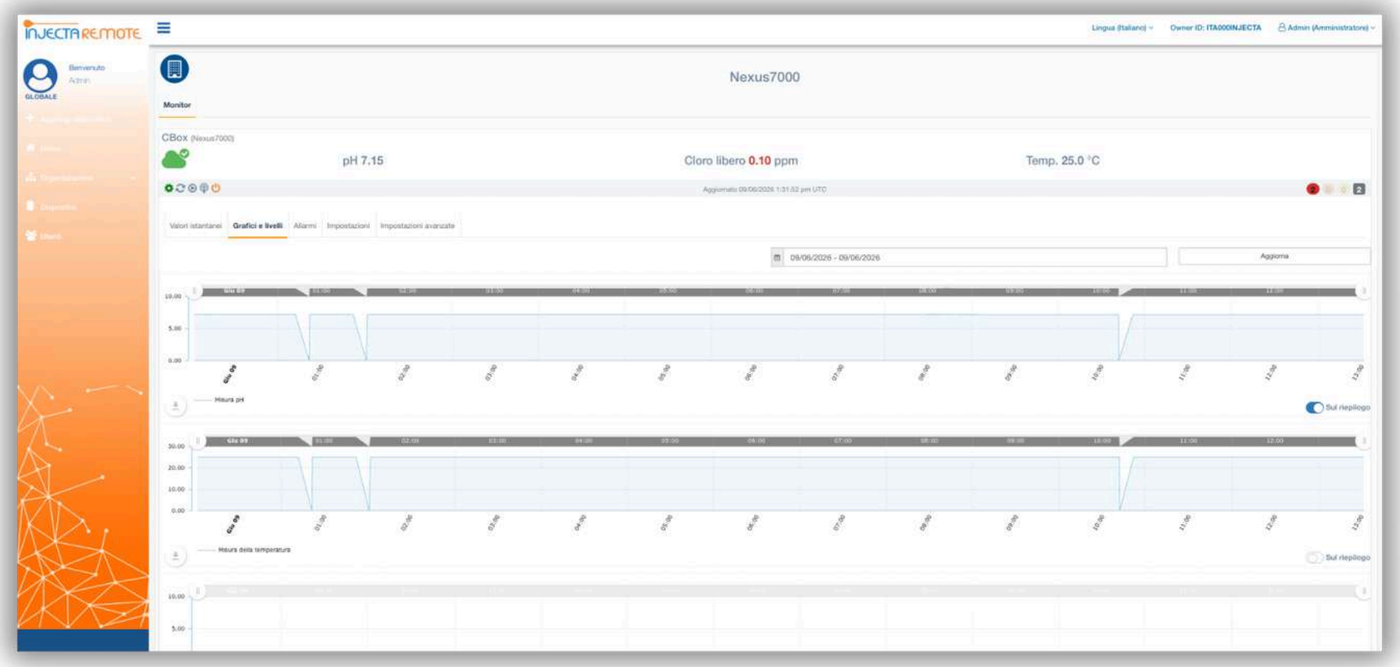
Injecta Remote is the digital platform that enables remote monitoring and control of systems and equipment anywhere in the world.
It has been designed to meet the needs of operators managing distributed installations who require a single tool to supervise operations, perform interventions, and optimize system performance.



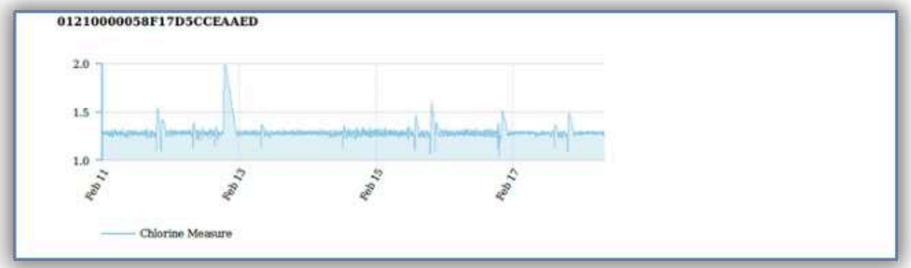
ANDROID APP ON Google play

Download on the App Store

Reports and Statistics



Report via e-mail (PDF and Excel formats)

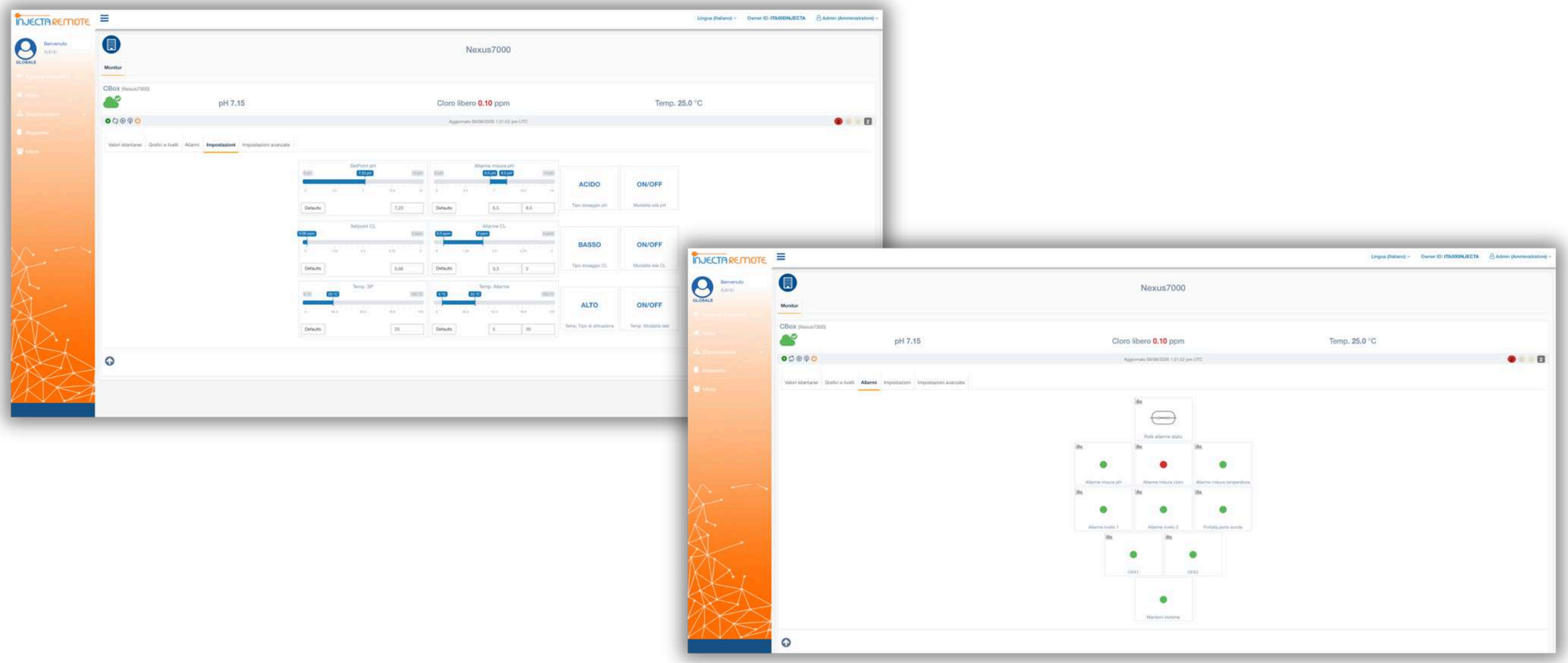




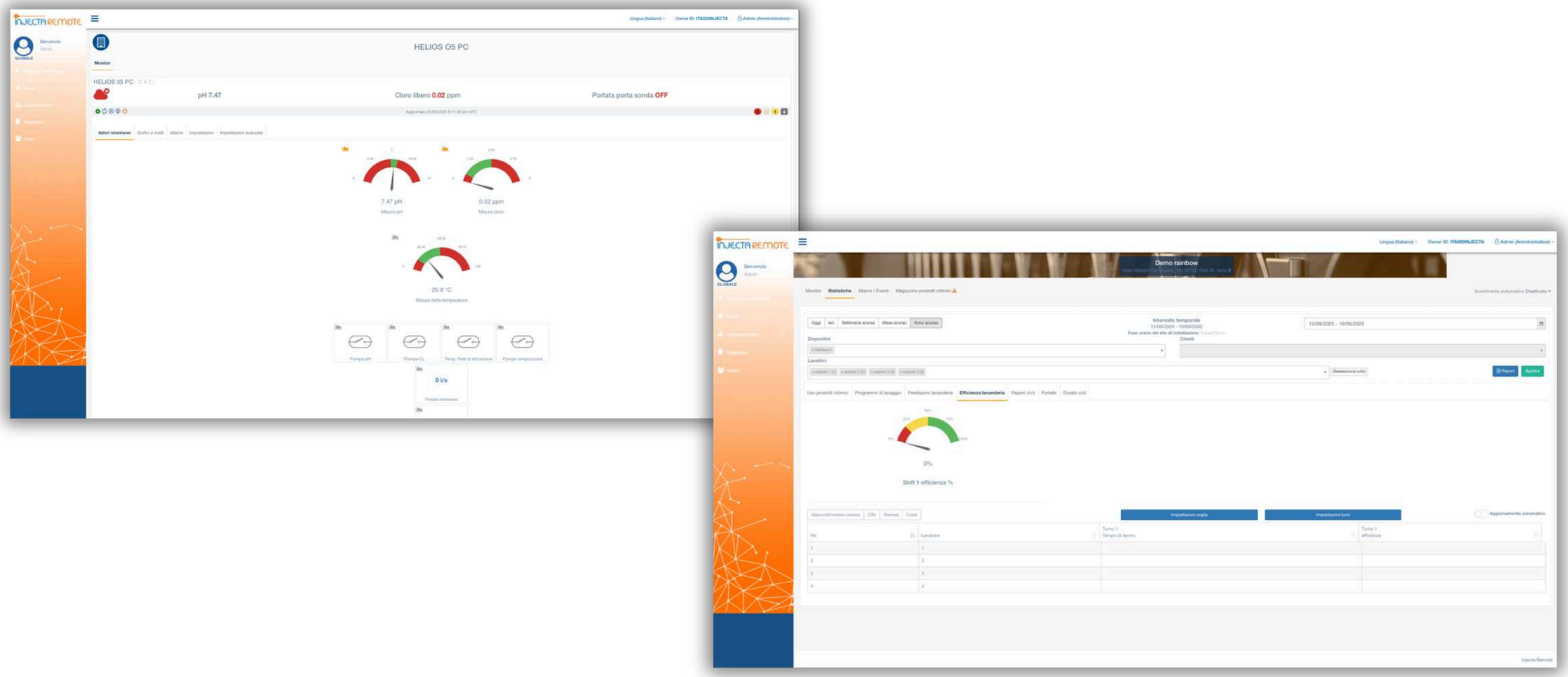
Date & time	Chlorine Measure
11/02/2022 - 18/02/2022	(from 1.29 to 1.25) -0.04



Pump Settings and Alarms



Reports and Statistics



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