



# Water Treatment Solutions for Industrial Applications



# Tailored for you.

**Expert, attentive and competent: we have been taking care of water for more than 50 years, and do it with passion.**

Water is not just our element, it is our mission.

At STEIEL, we design and manufacture **analysis instruments, measurement sensors, and dosing systems** for the treatment of all types of water, offering precise and reliable solutions.

We were among the pioneers in Italy in understanding the importance of a **personalized** approach. For this reason, each of our products is tailored to our customers' specific application needs.

Our team is the heart of STEIEL:

- Highly qualified electronic and mechanical **designers** create innovation.
- **Specialized technicians** provide field support for start-ups, maintenance, and assistance.
- Marketing and back-office professionals handle every customer request.
- **Technical and sales representatives** anticipate market needs, always at your side.





# We can treat all types of water.

Since **1973**, **STEIEL** has been **designing and manufacturing** complete systems for the analysis and adjustment of key physical-chemical parameters for water treatment.

Our range includes measuring instruments, chemical dosing pumps, electromechanical mixers, sensors, probe holders, and ready-to-use solutions, factory-assembled and wired.

Products suitable for a **wide range of industrial sectors**, as the treatment of process water, automatic blow-down of cooling towers, sanitization in the agri-food industry, potabilization control, Legionella prevention in DHW circuits, disinfection in livestock sector, control of galvanic baths and RO plants, and much more.

Contact us for a **personalized assessment!**

## EVOLUTION EW (one channel) / EW<sup>2</sup> (two channels) SERIES

### Wall installation



- One or two measurement inputs: mV/mA (for pH electrode / ORP electrode / amperometric sensor / mA signal - selectable via software) or for conductivity probe
- Input for Pt100 or Pt1000 probe, with automatic detection of sensor type; for temperature measurement and compensation
- User-friendly interface with intuitive configuration menu, four multifunction soft-keys and graphic display with backlight changing colour according to instrument status
- Each measurement channel features:
  - Four adjustment outputs (2x On-Off/PWM and 2x PFM)
  - One 0/4-20 mA output, fully configurable
  - Two inputs for level sensor
- Pause digital input to disable all outputs
- Frequency input for volumetric water meter
- Eco/Boost Mode input
- Management of sensor automatic cleaning cycles
- Inbuilt timer with extensive scheduling program
- Three-level password-protected configuration menu
- USB port to load parameter configuration, download data or upgrade the system
- RS485 communication with Modbus RTU (standard) or TCP/IP (optional) protocol
- Optional connectivity with integrated SteieLynx gateway
- Exclusive STEIEL casing with quick installation system, thanks to the fixing on a wall bracket, and safe attachment of the front cover for maximum ease of operations; IP65 protection, suitable for harsh environments
- Power supply: 100-240 V~ (upon request, 24 V-/~ / 12 V-)

## EVOLUTION EQ SERIES

### Panel-mounting instruments



- One measurement input: mV/mA (for pH electrode / ORP electrode / mA signal - selectable via software) or for conductivity probe
- Input for Pt100 or Pt1000 probe, with automatic detection of sensor type; for temperature measurement and compensation
- User-friendly interface with intuitive configuration menu and four multifunction soft-keys
- Two adjustment outputs (On-Off or proportional PWM)
- One analog output (0/4-20 mA), fully configurable
- Pause digital input to disable all outputs
- Three-level password-protected configuration menu
- USB port to load parameter configuration, download data or upgrade the system
- RS485 communication with Modbus RTU protocol
- Power supply: 100-240 V~ (upon request, 24 V-/~ / 12 V-)



# easy+fix Installation System

STEIEL exclusive and patented system for compact and space-saving assembly of the sensor-holder, directly fixed on the instrument case. The symmetrical fixing plate allows the maximum **installation flexibility**.

You can mount the sensor-holder on the **left or right side**, depending on which one best fits your installation needs!



## S504 / S508 SERIES Single-parameter units

Digital units designed for installation in electrical panels (DIN rail or panel mounting). Models with input for pH/ORP electrode, conductivity probe, or mA signal. Temperature input for Pt100 sensor always provided.

Backlit alphanumeric LCD, two relay outputs, one analog output (mA), and digital pause input.

The S508 series also includes models with input for amperometric sensor or turbidity probe, multilingual menu, and serial port for communication with a PC or remote supervisor.

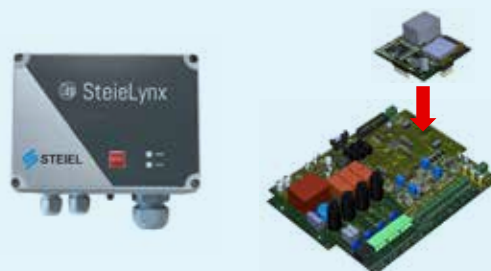


## SteieLynx Gateway & Web App

**The eagle eye that watches over your system!**

Supervising unit to remotely monitor and manage STEIEL instruments through the dedicated Web App, compatible with any type of device. Data reports and alert messages directly on your PC or Smartphone.

- Internet connection via LAN port, Wi-Fi module or 4G network (USB modem with SIM card)
- Power supply: 100-240 V~
- Available as an external device in IP56 case for wall installation, or as a module to be integrated in the EVOLUTION EW / EW<sup>2</sup> units
- It can also communicate with NOVA NSP pumps provided with RS485 interface



# PROXIMA & NOVA

## Professional dosing pumps

Series of electromagnetic pumps with advanced multifunctional electronics and high performance hydraulics.

Wide range of available options for pump head (PVDF, methacrylate, High Viscosity) and flow rate (2-32 l/h), optional RS485 port with Modbus RTU communication protocol.



## PROXIMA PSP SERIES

Professional pumps with stroke adjustment, foot-mounting.



### Available models:

**PSP161** : Multifunctional pump with inputs for pulse command (dosing proportional to the flow rate or automatic calculation) or from analogic signal (0/4-20 mA); batch and duty cycle modes.

**PSP162** : Pump with inbuilt pH/ORP meter

**PSP163** : Pump with inbuilt chlorine meter

**PSP164** : Pump with inbuilt conductivity meter

Options available on request:

- Relay output (alarm or pulse repetition) or RS485 port with Modbus RTU communication protocol
- FLOW input to monitor injection flow with proper "Flow Control" sensor
- Dosage of medium and high-viscosity products



## NOVA SERIES

Pumps designed for wall installation.



### Available models:

#### NOVA NSP Series - professional line of wall pumps.

**NSP161** : Multifunctional pump with pulse and 0/4-20 mA inputs

**NSP162** : Pump with inbuilt pH/ORP meter

**NSP163** : Pump with inbuilt chlorine meter

#### NOVA NSE Series - basic line of wall pumps.

**NSE150** : ON/OFF pump

**NSE155** : ON/OFF pump with input for level sensor

**NSE157** : ON/OFF pump with pulse command and input for level sensor

## Motor Pumps

Full range of motor-driven pumps, membrane and piston series, possible multifunction electronics, mechanical adjustment of the stroke length.

Dosing heads available in PP, PVDF and AISI316L.

Flow rates up to 2000 l/h, pressure up to 14 bar (depending on model).

Upon request, models are also available with two, three or four metering heads.



# Ready-to-use control systems

STEIEL offers a wide range of turnkey solutions for industrial applications. Factory assembled and wired panels and cabinets, complete with digital control unit, measurement sensors, with or without dosing pumps.



The EW/EW<sup>2</sup> control units are extremely versatile and equipped with features that make them suitable for a wide range of industrial applications.

For example, they include: chlorine or chlorine dioxide disinfection systems complete with sample water recovery circuits, useful for Legionella prevention in DHW lines; conductivity monitoring panels with two-electrode probes or inductive measurements; automatic blow-down and biocide dosing systems in cooling towers; drinking water control panels; systems to measure and control galvanic baths in surface treatment processes; multi-parameter stations; etc. All of these solutions can also include dosing pumps managed by the EW/EW<sup>2</sup> control unit and allow remote control via RS485/Modbus RTU or TCP/IP digital communication, or SteieLynx Web App by STEIEL.

Industrial automation panels with S508 and S504 instruments are also available..

# Dosing stations and skids

To complete the wide range of ready-to-use solutions, STEIEL also offers dosing stations and skids tailored to the customer's specific needs.



Dosing stations with tanks ranging from 50 to 1000 litres, which can mount an electromagnetic or motor-driven dosing pump, various types of electromechanical or manual stirrers, suction lance with inbuilt level sensor or stilling tube, and safety container.

Heat-sealed sheet skids complete with piping and accessories such as damper, pressure gauges, and graduated cylinder, also with housings for reagent tanks and an optional measuring/control instrument.



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