Flexibility and innovation

Flexibility and innovation are fundamental to us. Since 1982, we have been designing and producing reliable, cutting-edge instruments for water treatment and chemicals dosing. As a company, we are open to change and, just like water, we have branched out over time, spreading out into wide-ranging areas, from industrial water treatment to potabilization to water purification, from food and beverage industry to swimming pools.

OUR VALUE
Being at the cutting edge means constant study. Our R&D and design departments are where our heart beats. Extremely high-profile engineers and technicians are committed to developing software and designing hardware, but also to studying and evaluating hydraulic and mechanical components. The customers and their satisfaction have always been at the heart of what we do, so we pay constant attention to the quality of our production processes, through a constantly updated and cutting-edge range of industrial machines.

QUALITY AND SAFETY, FIRST OF ALL
We are entirely responsible for every stage of the process, from invention to delivery. Our products undergo up to 10 quality checks and are tested four times before reaching the customer. The quality management system of our production process is ISO 9001 certified and has customer satisfaction as its ultimate goal, as well as continuous improvement of company performance. Customers satisfaction comes hand-in-hand with ensuring safety for them, their operators and final users. Our dosing pumps and controllers are UL certified to guarantee full compliance with general requirements for safety of use, while NSF certifications guarantee that our pumps do not release hazardous pollutants into the water and therefore are fully safe for use in contact with drinking water, for example in the food production industry, or at recreational facilities like swimming pools and spas.

ENVIRONMENTAL SUSTAINABILITY
The adoption of an environmental management system compliant with the international standard ISO 14001 arises from the awareness of the imprint that human activities leave on the planet. Our environmental protection management system allows us to minimize the impact of production processes (with emissions well below the prescribed limits), of products and of raw materials used (with the recycling of most of the waste materials), also thanks to an energy saving system that covers all company spaces and to the use of renewable energy sources.

COMPETENCE AND PROFESSIONALISM
Extremely high performance, top quality and high technology are our greatest assets. But there is more. Every day, we safeguard something equally important: human capital. Our co-workers are the best professionals on the market; the most expert and competent people. For this reason our organizational model is designed to manage their safety and health in an organic and systematic way, respecting the international standard BS OHSAS 18001.

100% MADE IN ITALY
All our products are 100% made in Italy.

WARRANTY
5 years warranty for all EMEC dosing pumps and controllers
Smart systems

POOLBRAVO

Dosing pumps

MULTIFUNCTIONS MODE DOSING PUMPS
Flow control

CONSTANT MODE DOSING PUMPS
Flow control

PROPORTIONAL DOSING PUMPS WITH PARAMETER MEASUREMENT
PH / ORP measurement & control

DOING PUMPS
Anti algae, active oxygen, flocculant measurement and control

DOING PUMPS
Scent and essences dosing for health spa

DOING PUMPS
Foot-bath disinfection systems

DOING PUMPS
Dechloration system for filters cleaning waters

All-in-one dosing pumps

ALL-IN-ONE DOSING PUMPS
WDPHXX series, also available with peristaltic pumps

ALL-IN-ONE DOSING PUMPS
Multiparameter measurement and control

ALL-IN-ONE DOSING PUMPS
Dry feeder and salt chlorine generator measurement and control
Bromine, pH and active oxygen measurement and control
Digital controllers

SINGLE PARAMETER DIGITAL CONTROLLERS
pH - ORP - Cl₂ - Br₂ - O₃ - Total Chlorine - H₂O₂ - Inductive conductivity
- Turbidity + Temperature measurement and control

MULTIPARAMETER DIGITAL CONTROLLERS
Measurement and control of several parameters simultaneously

Remote measurement and control

ERMES

MODEM AND EXTERNAL MODULES FOR COMMUNICATION
For LD, MAX5, WDPHXX and CENTURIO controller series

All-in-one control and dosing solutions

ALL-IN-ONE SYSTEMS
Digital system with open amperometric cell ECL6

ALL-IN-ONE SYSTEMS
Digital system with closed amperometric cell SCL3S/20 and PEF1

ADVANCED ALL-IN-ONE SYSTEMS

Accessories

LIST OF COMPATIBLE ACCESSORIES
SWIMMING POOL MADE SMART
POOLBRAVO

The POOLBRAVO integrated system has been designed to offer an all-in-one solution that is easy to use and highly accurate, able to minimize the need for manual intervention on swimming pool water and to reduce the consumption of chemical products. An elegant cover makes POOL BRAVO suitable for any installation context and, besides safeguarding from accidental liquid loss, preserves at the same time the cleanliness of the inner components and their integrity.

POOLBRAVO is a turnkey product available in different configurations to immediately and easily manage the main measurement parameters concerning the treatment of swimming pool water, thus optimizing the dosing and consumption of the chemical products necessary for the compliance with chemical-physical water requirements.

COMPLETE CONTROL

The LD multiple reading digital system inside POOLBRAVO gives you the complete control over the measurement parameters and over the dosing of chemicals, besides being easy to use thanks to the LCD display and the ENCODER control knob that makes simple to browse through its configuration menus. Complete control also comes from the wide range of probes that can measures hydrogen peroxide, oxygen, bromine, chlorine, ozone, peracetic acid and chlorine dioxide. EMEC V series dosing pumps complete POOL BRAVO dosing system.

REMOTE CONTROL

EMEC exclusive online system ERMES enables you to remotely control and regulate POOLBRAVO from any smartphone or PC, so to keep the status of your swimming pool always under control, wherever you are.

A multi-colored LED light is installed on PEF probe-holder in order to quickly signal, through an opening on the cover, specific operation statuses or possible alarms according to the color of the light.

**GREEN** or **BLUE** (depending on the version) means the device is correctly functioning.

**RED** means the device is in an alarm status.
Multifunctions mode dosing pumps

Flow control

(Constant, Divide, Multiply, PPM, Batch, Volt, mA, %, ml/q), stand-by* and flow sensor input*, alarm output** and level control.

AMS MF

<table>
<thead>
<tr>
<th>PRESSURE</th>
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### KMS MF

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</table>
Multifunctions mode dosing pumps

Flow control

(Constant, Divide, Multiply, PPM, Batch, Volt, mA, %, ml/q), stand-by* and flow sensor input*, alarm output** and level control.

TMS MF

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## VMS MF

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</table>

*Non disponibile su mod. VMS MF

**Uscita allarme livello opzionale su mod. VMS MF e mod. VCL*
Constant mode dosing pumps

Flow control

Constant mode dosing pumps with level and flow control. Double frequency scale.

AMS CL PLUS

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K CL PLUS

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Constant mode dosing pumps

*Flow control*

Constant mode dosing pumps with level and flow control. Double frequency scale.

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V CL

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Proportional dosing pumps with parameter measurement

PH / ORP measurement & control

Proportional dosing pumps with pH and/or ORP measurement and control, with overdose alarm.

TMS PH & TMS RH

**TMS PH**
Proportional pump driven by internal built-in pH meter (0÷14pH) stand-by and level control, supplied without pH probe.

**TMS RH**
Proportional pump driven by internal built-in ORP meter (0÷1000mV) stand-by and level control, supplied without ORP probe.

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</table>
### VMS PO

Proportional pump driven by internal built-in pH meter (0/14pH) or ORP meter (-1000mV/+1000mV). Parameter set by menu. Level control. PVDF pump head and accessories. Fast calibration on standard value. Restore last calibration.

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</table>
PERISTALTIC WD: PRECISE, RELIABLE, NOISELESS
**WDPHXX / WDPHXX PER**

WDPHxx series has been created by EMEC to provide a complete and small-sized solution for swimming pool water treatment. WDPHXX systems are all-in-one, compact instruments which integrate two dosing pumps and a control instrument into a single, easy to use, highly precise system.

WDPHXX systems can measure pH and another parameter that depends on the chosen model: chlorine, bromine, Redox, antialgae, flocculant, active oxygen. A wide range of products for the highest flexibility.

**WDPHXX PER: RELIABLE AND NOISELESS**

WDPHXX proportional dosing systems in the versions with peristaltic dosing pumps (WDPHXX PER) are the best solution to be installed where silent operation and high reliability are required, like in spa and wellness facilities.

The integrated peristaltic pumps are indeed the most suitable for micro-dosing needs with lower pressure, ensuring at the same time an absolutely constant and accurate flow rate. Moreover, peristaltic pumps promise to have low power consumption thanks to low voltage.

**COMPLETE CONTROL, EVEN REMOTELY**

A clear reading of data and an easy browsing through function menus are made simple by a wide backlit LCD display and by the “Encoder” control knob, in order to quickly program the working modes you need, to set alarms and to manage outputs.

You can also remotely control WDPHXX systems from any smartphone or PC with EMEC exclusive online system ERMES, so to keep the status of your plant always under control wherever you are.
All-in-one dosing pumps

Multiparameter measurement and control

WDPHCL / WDPHCL PER
Swimming pool controller with 2 dosing pumps for acid (pH) and chlorine (Cl₂). Liquid ends and pump head made of PVDF.
Also available with peristaltic pumps (WDPHCL PER).
Wheel control system
Alarm output
RS485 output
Measurement range:
from 0 to 14 pH
from 0 to 10 mg/l Cl₂

WDPHCL
pH & Chlorine

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<td>3 l/h</td>
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</table>
WDPHRH / WDPHRH PER
Swimming pool controller, 2 dosing pumps for acid (pH) and disinfectant (ORP). Liquid ends and pump head made of PVDF.
Also available with peristaltic pumps (WDPHRH PER).
Wheel control system
Alarm output
RS485 output
Measurement range:
from 0 to 14 pH
from 0 to 1000 mV

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</tbody>
</table>
**All-in-one dosing pumps**  
*Multiparameter measurement and control*

---

**WDPHCLS / WDPHCLS PER**
Proportional controller with 1 dosing pump driven by internal built-in pH and Chlorine/Bromine meter. Output: (SCHUKO plug) for sterilisers or Cl/Br feeders. Liquid ends and pump head made of PVDF.

Also available with peristaltic pumps (WDPHCLS PER).

Measurement range:
- from 0 to 14 pH
- from 0 to 10 mg/l Cl₂ / Br₂

*Option: free of voltage EV contact.*

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</table>

**EV OUTPUT**
- 230 VAC

**MAX LOAD**
- 10 A
WDPHRHS / WDPHRHS PER
Proportional controller with 1 dosing pump driven by internal built-in pH and ORP meter. Output: (SCHUKO plug) for sterilisers or Cl/Br feeders. Liquid ends and pump head made of PVDF.
Also available with peristaltic pumps (WDPHRHS PER).
Measurement range:
from 0 to 14 pH
from 0 to 1000 mV

Option: free of voltage EV contact.

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<th>EV OUTPUT</th>
<th>MAX LOAD</th>
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<td>230 VAC</td>
<td>10 A</td>
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</table>
All-in-one dosing pumps

Dry feeder and salt chlorine generator measurement and control
Bromine, pH and active oxygen measurement and control

WDPHCA / WDPHCA PER
Proportional controller with 2 dosing pumps for pH and anti algae. 230VAC EV proportional or on/off output for Cl/Br feeders.
Weekly anti algae timer and level probe.
Liquid ends and pump head made of PVDF.
Also available with peristaltic pumps (WDPHCA PER).
Wheel control system
Alarm output
RS485 output
Measurement range:
from 0 to 14 pH
from 0 to 10 mg/l Cl₂

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<th>PRESSURE</th>
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<td>3 bar</td>
<td>10 l/h</td>
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<td>1 bar</td>
<td>3 l/h</td>
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</table>

Optional: free of voltage EV contact.
WDPHCF / WDPHCF PER
Proportional controller with 2 dosing pumps for pH (acid-base) and flocculant. 230VAC EV proportional or on/off output for Cl/Br feeders. Level probe and gr/day flocculant dosing. Liquid ends and pump head made of PVDF. Also available with peristaltic pumps (WDPHCF PER).

Wheel control system
Alarm output
RS485 output
Measurement range:
from 0 to 14 pH
from 0 to 10 mg/l Cl₂

Optional: free of voltage EV contact.

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<td>10 l/h</td>
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</tbody>
</table>
All-in-one dosing pumps
Dry feeder and salt chlorine generator measurement and control
Bromine, pH and active oxygen measurement and control

WDPHOS

WDPHOS & WDPHOS PER
Proportional controller with 2 dosing pumps
for pH (acid-base) and active oxygen. Level
probe. Temperature reading with enclosed probe.
Weekly or daily (hr) active oxygen dosing. Liquid
ends and pump head made of PVDF.
Also available with peristaltic pumps (WDPHCA PER).
Settings:
- daily or weekly timer
- temperature compensation - pool size
Wheel control system Alarm output
RS485 output

PH measurement range: from 0 to 14
Optional: free of voltage EV contact.

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<thead>
<tr>
<th>PRESSURE</th>
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<tbody>
<tr>
<td>3 bar</td>
<td>10 l/h (for pH)</td>
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<tr>
<td>3 bar</td>
<td>4 l/h (for active oxygen)</td>
</tr>
<tr>
<td>1 bar</td>
<td>3 l/h</td>
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</table>

Optional: free of voltage EV contact.
Dosing pumps
Anti algae, active oxygen, flocculant measurement and control

VMS EN
Anti algae

VMS EN
Anti algae pump with weekly timer for shock type water treatment. Quantities adjustable in cc units.
Level probe included.

PRESSURE
3 bar

FLOW
10 l/h
Dosing pumps
Anti algae, active oxygen, flocculant measurement and control

VMSA H₂O₂
Active oxygen pump.
Also available with peristaltic pump (VMSA H₂O₂ PER).
Settings:
- day/week timer
- temperature compensation
- pool size
Level and temperature probes included.

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<th>PRESSURE</th>
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<td>4 l/h</td>
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</table>
VCOG & VCLG

Flocculant

VCOG & VCLG
Metering pump for flocculant.

Double scale (24h):
- 0 to 300 gr/day
- 0 to 3000 gr/day
Level probe included.

PRESSURE
5 bar

FLOW
3000 gr/24h
Dosing pumps

*Scent and essences dosing for spa*

**VCLS**

Silenced pump for scent and essences dosing at spas and hammam centres.

Double scale:
- 0 to 100 g/hr
- 0 to 1000 g/hr

Level probe included.

- **PRESSURE**
  - 7 bar

- **FLOW**
  - 1 l/h
VCLSE
Silenced pump for scent and essences dosing at spas and hammam centres. Contact (N.O.) for external control.

Double scale:
- 0 to 100 g/hr
- 0 to 1000 g/hr

Level probe included.

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<td>7 bar</td>
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Dosing pumps

Foot-bath disinfection systems

VMS MF + CTFI

Foot-bath disinfection system.
It works with a pulser sender water meter (1/2” size).
% control with level probe.

VMS MF + CTFI

<table>
<thead>
<tr>
<th>PRESSURE</th>
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<tr>
<td>5 bar</td>
<td>12 l/h</td>
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CTFI

1/2”
TMS MF + CTFI

Foot-bath disinfection system. It works with a pulser sender water meter (1/2” size).

% control with level probe.

**PRESSURE**

3 bar

**FLOW**

30 l/h

**CTFI**

1/2”
**VCLD**

Dechlorination system for waters filters (chlorine).
Level meter. SEFT C contact less water sensor (fittings 3/4").
SEFT P flow sensor (fittings 1/2").

Settings:
- 0-800 gr/h
- 0-8000 gr/h

Level probe included.

SEFT C and SEFT P are optional.
VMS MF + CTFI & CWFA

Dechloration system for water filters.

It works with a pulse sender water meter (1.1/2” or 2” size).

Proportional volume control (product ppm) with level meter.

**PRESSURE**

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**FLOW**

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**CTFI**

1”1/2 e 2”

**CWFA**

3” e 4”
Single parameter digital controllers
pH - ORP - Cl₂ - Br₂ - O₃ - Total Chlorine - H₂O₂ - Inductive conductivity - Turbidity + Temperature measurement and control

LDS series

LDS / LDS PLUS
Options:
- USB for data log recording
- Current Output (0/4 - 20 mA)
- Ethernet
- 3G/4G modem
- MODBUS
- WIFI

LDS PLUS features
- 5 relais (2 setpoint; alarm; probe cleaning; circulation)
- Probe Cleaning
- PID
- mA output
MODELS

LDSPH / LDSPH PLUS
pH measurement and control

LDSRH / LDSRH PLUS
ORP measurement and control

LDSCL / LDSCL PLUS
Chlorine measurement and control (reading scale based on probe)

LDSCD / LDSCD PLUS
Conductivity measurement and control

LDSCDIND / LDSCDIND PLUS
Inductive conductivity measurement and control (ECDINDPT probe)

LDSETORB2 / LDSETORB2 PLUS
Turbidity measurement and control (ETORB2 probe)

LDSTRC / LDSTRC PLUS
Florescence measurement and control

LDSFL / LDSFL PLUS
Fluorine measurement and control

Wheel with “EASY-NAV” control, flow control, local & Remote Control, ERMES web communication, permanent data storage with system log, PT100 temperature probe, Stand-by input, Alarms: damaged probes - max dosage - threshold - levels - flow, Programmable delay at dosing start-up (up to 60 minutes), Priority dosage, Automatic temperature compensation, Probe readout menu (LDSCDIND), Working modes: on/off, impulsive proportional, proportional PWM and fixed PWM, Automatic or manual dosing activity, mA output (option).
Single parameter digital controllers

RACK MOUNTING CONTROLLERS
Controller for: pH, ORP, Chlorine (Total chlorine, Free Chlorine, Chlorine Dioxide, Hydrogen Peroxyde, Ozone, Bromine, Peracetic Acid depending on the probe), Conductivity (Probes not included). 2 On-Off/proportional setpoints, Flow alarm, Flow sensor stand-by input, 0÷20 mA or 4÷20 mA output proportional to read measured value and programmable in the reading range.

JA & JA PRO

JA control instruments are a series of rack mounting (96x96) single reading systems with temperature reading. On/Off, impulsive proportional and PID are main working modes. It can set and monitor: pH, ORP, chlorine (depending on the probe: total chlorine, free chlorine, chlorine dioxide, hydrogen peroxide, ozone, bromine or paracetic acid) and conductivity (μS/S - Ohm - TDS / PPM) with automatic range and probe / product selection (H3PO4 - H2SO4 - HNO3 - HCl - NaOH - NaCl). Probes are not included.

JA models have: 2 setpoints (on/off, proportional), flow alarm, flow sensor stand-by input, 0-20 mA or 4-20 mA output proportional to read value and programmable in the reading range, alarm output. Available low voltage 12VDC or 24VDC power supply. Available IPS4 protection cover. JA PRO version is equipped with mA module and MODBUS serial communication to be connected to other devices on RS485 networks and TCP/IP MODBUS.

JA & JA PRO
Options:
- 12VDC or 24VDC power supply
- IPS4 protection

JA PRO
PRO additional features:
- mA module
- MODBUS serial communication
J DIGITAL & DIN DIGITAL

J DIGITAL
Rack mounting (96x48) single reading systems
J DIGITAL control instruments are a series of rack mounting (96x48) single reading systems that meets many applications.
It can set and monitor: pH, ORP, chlorine (depending on the probe: total chlorine, free chlorine, chlorine dioxide, hydrogen peroxide, ozone, bromine or paracetic acid), conductivity, ozone, chlorine dioxide and temperature.
Probes are not included.
J DIGITAL models have: 2 setpoints (on/off, proportional), flow alarm, flow sensor stand-by input, 0-20 mA or 4-20 mA output proportional to read value and programmable in the reading range. Available IP54 protection cover.

DIN DIGITAL
Rail mounting (6 modules) single reading system
DIN DIGITAL control instruments are a series of rail mounting (6 modules) single reading systems that meets many applications.
It can set and monitor: pH, ORP, chlorine (depending on the probe: total chlorine, free chlorine, chlorine dioxide, hydrogen peroxide, ozone, bromine or paracetic acid), conductivity, ozone, chlorine dioxide and temperature. Probes are not included.
DIN DIGITAL models have: 2 setpoints (on/off, proportional), flow alarm, flow sensor stand-by input, 0-20 mA or 4-20 mA output proportional to read value and programmable in the reading range.
Multiparameter digital controllers
Measurement and control of several parameters simultaneously

pH / Total Chlorine / Free chlorine / Combined Chlorine / ORP / Turbidity Conductivity / Inductive conductivity / Bromine / Ozone + Temperature

LDPHXX series

LDPHXX / LDPHXX PLUS
Options:
- USB for data log recording
- Current Output (0/4 - 20 mA)
- Ethernet
- 3G/4G modem
- MODBUS
- WIFI

LDPHXX PLUS features
- 5 relais (2 setpoint; alarm; probe cleaning; circulation)
- Probe Cleaning
- PID
- mA output

*Specificare i parametri e il tipo di sonda per cloro al momento dell’ordine
MODELS

LDPHRH / LDPHRH PLUS
pH (0/14) - Redox (0/1000 mV) - °C (0/99,9)

LDPHCL* / LDPHCL* PLUS
pH (0/14) - Cloro (0/10 mg/l Cl₂) - °C (0/99,9)

LDPHBR / LDPHBR PLUS
pH (0/14) - Bromo (0/10 mg/l Br₂) - °C (0/99,9)

LDPHDO / LDPHDO PLUS
pH (0/14) - O₂ (0/200 mg/l H₂O₂) - °C (0/99,9)

Controller for acid (pH) and a second parameter. Wheel with “EASY-NAV” control, Flow control, Local & Remote Controlled, ERMES web communication, Permanent data storage with system log, PT100 temperature probe, Stand-by input, Alarms: damaged probes - max dosage - threshold - levels - flow, Programmable delay at dosing startup (up to 60 minutes), Priority dosage, Probe readout menu, Probes check up, Multiple probe readings can be viewed, Working modes: on/off, impulsive proportional, proportional PWM and fixed PWM, Automatic or manual dosing activity, Chlorine/Bromine selection with ECL6 (LDPHCL), mA output (option).
Multiparameter digital controllers

Measurement and control of several parameters simultaneously

pH / Total Chlorine / Free chlorine / Combined Chlorine / ORP / Turbidity Conductivity / Inductive conductivity / Bromine / Ozone + Temperature

MAX5 series

MAX5
Options:
- USB for data log recording
- Current Output (0/4 - 20 mA)
- Ethernet
- 3G/4G modem
- MODBUS
- WIFI
The MAX5 is a multiparameter digital controller able to simultaneously control up to 5 programmable channels for the regulation of: pH - ORP - Total chlorine - Free chlorine - Combined chlorine - Turbidity - Conductivity, + Temperature.

MAX5 systems have: 6 setpoints relais output (on/off, PID or PWM) renamable, 6 impulsive proportional output renamable, 1 probe cleaning output, 5 level tank input renamable, 5 timer for flocculant/algicide dosing renamable, water meter input for water restore, temperature probe input, alarm output.

Dosing control also by external command (ex. N.O. contact on filtration).

The MAX5 can be connected to a PC, even remotely, for remote control of the system via USB, RS485, MODEM, ETHERNET.

Also available with optional analog current outputs proportional to the read values (4/20 mA).

All data is displayed through a large format LCD display (240x64). Easy menus and functions navigation by Encoder wheel.

**Ranges**

**pH**  
from 0 to 14 pH

**Bromine**  
from 0 to 10 mg/l

**ORP**  
from 0 to 1000 mv

**Turbidity**  
from 0 to 4000 NTU

**Total chlorine**  
from 0 to 10 mg/l

**Temperature**  
from 0 to 100 °C

**Free chlorine**  
from 0 to 10 mg/l

**Conductivity**  
from 0 to 300 mS

**Combined chlorine**  
from 0 to 10 mg/l
Multiparameter digital controllers
Measurement and control of several parameters simultaneously

pH / Total Chlorine / Free chlorine / Combined Chlorine / ORP / Turbidity Conductivity / Inductive conductivity / Bromine / Ozone + Temperature

CENTURIO POOL series

CENTURIO
Options:
- USB for data log recording
- Current Output (0/4 - 20 mA)
- Ethernet
- 3G/4G modem
- MODBUS RTU & TCP/IP
- WIFI
RANGES

- **pH**
  - from 0 to 14 pH

- **ORP**
  - from -1000 to 1000 mv

- **Total chlorine**
  - from 0 to 20 mg/l

- **Free chlorine**
  - from 0 to 20 mg/l

- **Combined chlorine**
  - from 0 to 10 mg/l

- **Bromine**
  - from 0 to 10 mg/l

- **Turbidity**
  - from 0 to 4000 NTU

- **Temperature**
  - from 0 to 100 °C

- **Conductivity**
  - from 0 to 300 mS

**CENTURIO POOL** is a digital regulation and measurement system for multi-parameter control in swimming pool water treatment. It combines complete control and extreme ease of use with the elegance of the case made by Giugiaro Design.

Equipped with a Linux operating system, a high-performance ARM A5 microprocessor and a large color touchscreen, CENTURIO POOL can be set to work with pH priorities and can control flocculant output, shock chlorination and backwashing of filters and simultaneously manage up to 10 channels to read the following parameters: pH, free chlorine, combined chlorine, active free chlorine, total chlorine, conductivity, ORP, NTU, product levels, pool water level. For each channel CENTURIO POOL has 2 digital setpoints (ON / OFF), 2 proportional setpoints (IS), 1 mA output setpoint and 1 Temperature setpoint; you can also set 6 timers with a maximum of 10 daily schedules each.

CENTURIO POOL can be connected to the Internet via WIFI, GSM or ETHERNET and remotely controlled via ERMES, the online control system designed by EMEC. It is also equipped with the MODBUS serial communication protocol (optional) which allows connection with other devices within RS485 networks.
YOUR POOL ONLINE
Remote measurement and control

Through ERMES online service you can remotely control and regulate all the parameters of all EMEC enabled products and interactively monitor probes, instrument inputs, products level, temperature and setpoints.

ADVANTAGES

- Less plant intervention and inspections.
- Reports on the current status of the network’s devices and connections (probes, outputs, alarms, setpoints)
- Instant alarm notifications via sms or email
- Data report of all plant instruments
- Activity log like graphs and charts that can be downloaded on your PC (excel or pdf)

HOW DOES ERMES WORK?
Enter [www.ermes-server.com](http://www.ermes-server.com), register for free, configure and name your systems. All EMEC instruments with encoder and ETHERNET or 3G/4G configuration will be immediately connected and available.

EMEC compatible systems:

- MAX5
- LDS
- MTOWER
- WD
- CENTURIO

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Remote measurement and control

CONNECTION EXAMPLE

ETHERNET - WIFI

- RS485 NETWORK - UP TO 30 CONTROLLERS CONNECTED TO ONE EXTERNAL MODEM/ROUTER

- UP TO 30 WIFI

- BT ETH
- BT WIFI

- OPPURE

- MOD. ETH
- MOD. WIFI

- RJ45

- ALERT

- LAN

- INTERNET

- EXTERNAL MODEM/ROUTER

- WIN & MAC

- SMARTPHONE

- TABLET

- ALERT

- PRINT
CONNECTION EXAMPLE

GSM - 3G/4G

RS485 NETWORK - UP TO 30 CONTROLLERS CONNECTED TO ONE DEVICE WITH MOBILE GSM - 3G/4G CONNECTION

MOBILE GSM - 3G/4G CONN.EC.
Remote measurement and control

**CONNECTION EXAMPLE**

*DATA DOWNLOAD & UPLOAD VIA USB*

RS485 NETWORK - UP TO 30 CONTROLLERS CONNECTED TO ONE DEVICE

LOG FILE DOWNLOAD VIA USB

FILE LOG UPLOAD ON ERMES

WIN & MAC

PRINTER
Modem and external communication modules
For LD, MAX5, WDPHXX and CENTURIO controller series

- **ETHERNET MODULE**
  - Internal standard ETHERNET (RJ45) controller for LD encoder and MAX5 controllers.

- **BT ETH**
  - Ethernet controller for standard RJ45 network. IP65.

- **WIFI MODULE**
  - Module for WiFi network. IP65.

- **BT WIFI**
  - Module for WiFi connection. IP65.

- **3G/4G MODULE**
  - Internal 3G/4G modem for LD encoder and MAX5 controllers.

- **BT CEL**
  - Modem for mobile network. IP65.

- **USB MODULE**
  - Module for USB connection. IP65.

- **BT USB**
  - USB module for USB datalog recording. IP65.

- **MODBUS MODULE**
  - MODBUS RTU module for PLC connection.

- **BT MODBUS**
  - Serial communication module for PLC connection.
All-in-one systems

**PA-LDPhRH**

**PH AND ORP PROPORTIONAL CONTROL**
- Controller LDPHRH
- Dosing pump VMS MF 03 10 (10 l/h)
- Dosing pump VMS MF 03 10 (10 l/h)
- Filter NFIL
- pH probe EPHS
- ORP probe ERHS
- Probe holders NPED4

Size: 600x650 mm
Customized coloured background on demand

**PA-WDPhOS**

**PH AND ACTIVE OXYGEN PROPORTIONAL CONTROL**
- Controller WDPhOS 03 10 (10 l/h) and 03 04 (4 l/h), or WDPhOS PER 01 03 (with peristaltic dosing pumps)
- Filter NFIL
- Temperature probe ETEPTCH18
- pH probe EPHS
- Probes holder NPED4

Optional: Also available with WDPhOS PER

Size: 400x600 mm
Customized coloured background on demand.

OUTPUT RS485
PH AND ORP PROPORTIONAL CONTROL
Controller WDPHRH 03 10 (10 l/h), 05 01 (1 l/h) and 10 04 (4 l/h), or WDPHRH PER 01 03 (with peristaltic dosing pumps).
Filter NFIL
Probe ORP ERHS
Probe pH EPHS
Probes holder NPED4

Optional: Also available with WDPHRH PER
Size: 400x600 mm
Customized coloured background on demand.
OUTPUT RS485

PA-WDPHEV
PH OR ORP PROPORTIONAL CONTROL, DRY FEEDER SOLENOID VALVE OR SALT GENERATOR (230VAC / 10A) OUTPUT
Controller WDPHRHS 07 06 (6 l/h) or 05 01 (1 l/h) 2. Filter NFIL
Probe ORP ERHS
Probe pH EPHS
Probes holder NPED4
Size: 400x600 mm
Customized coloured background on demand.
OUTPUT RS485
All-in-one systems

PA-WDPHCFSA & PA-WDPHCASA

SALT CHLORINE GENERATOR VERSION:
Flocculant with continuous dosing PA-WDPHCFSA
Anti algae with weekly timer PA-WDPHCASA

- Controller WDPHCA 07 06 (6 l/h), 05 01 (1 l/h) or 10 04 (4 l/h)
- Probe pH EPHS
- Filter NFIL
- Proximity sensor SEPR
- Open amperometric cell ECL6
- Modem BT CEL
- Output 10 A 220 VAC

Optional: Free of voltage EV contact.

Size: 500x700 mm
Customized coloured background on demand.

OUTPUT R5485

PA-WDPHCA/CF & PA-WDPHBA/BF

CHLORINE / BROMINE DRY FEEDER:
Flocculant with continuous dosing PA-WDPHCFBF
Anti algae with weekly timer PA-WDPHCABA

- Controller WDPHCL 07 06 (6 l/h), 05 01 (1 l/h) or 10 04 (4 l/h)
- Probe pH EPHS
- Chlorine probe SCL3S/20 or Bromine probe SBR 1/20
- Filter NFIL
- Proximity sensor SEPR
- Probes holder PEF1R
- Output 10 A 220 VAC

Optional: Free of voltage EV contact.

Size: 500x700 mm
Customized coloured background on demand.

OUTPUT R5485

Le immagini contenute in queste pagine sono solo a scopo illustrativo, per maggiori informazioni su possibili configurazioni, contattare l’ufficio commerciale o il proprio rappresentante commerciale di riferimento.
**PA-WDPHCL**

**PH AND CHLORINE PROPORTIONAL CONTROL**

- Controller WDPHCL 07 06 (6 l/h), 05 01 (1 l/h) or 10 04 (4 l/h), or WDPHCL PER 01 03 (with peristaltic dosing pumps).
- Filter NFIL
- Proximity sensor SEPR
- Probe pH EPHS
- Open amperometric cell ECL6

**Optional:** Also available with WDPHCL PER

**Size:** 500x700 mm
Customized coloured background on demand.

**OUTPUT** RS485

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**PA-WDPHCLO**

**PH AND CHLORINE PROPORTIONAL CONTROL (INORGANIC/ORGANIC)**

- Controller WDPHCL 07 06 (6 l/h), 05 01 (1 l/h) or 10 04 (4 l/h), or WDPHCL PER 01 03 (with peristaltic dosing pumps).
- Filter NFIL
- Proximity sensor SEPR
- Probe pH EPHS
- Chlorine probe SLC3S/20
- Probes holder PEFIR

**Optional:** Also available with WDPHCLO PER

**Size:** 500x700 mm
Customized coloured background on demand.

**OUTPUT** RS485
All-in-one systems
Controller based system with open amperometric cell ECL6

PA-LD PHCL

FOR DRY FEEDER USAGE (CHLORINE / BROMINE) OR SALT CHLORINE GENERATOR. MEDIUM SIZE POOL
- Controller LDPHCL
- Dosing pump for acid VMS MF 03 10 (10 l/h)
- Filter NFIL
- Probe pH EPHS
- Proximity sensor SEPR
- Temperature probe ETEPTCH18
- Open amperometric cell ECL6

Size: 600x800 mm
Customized coloured background on demand.

PA-LD PHCLO

PH AND CHLORINE PROPORTIONAL CONTROL. MEDIUM SIZE POOL
- Controller LDPHCL
- Dosing pump for acid VMS MF 03 10 (10 l/h)
- Dosing pump for chlorine VMS MF 02 15 (15 l/h)
- Filter NFIL
- Probe pH EPHS
- Proximity sensor SEPR
- Temperature probe ETEPTCH18
- Open amperometric cell ECL6

Size: 600x800 mm
Customized coloured background on demand.
PA-LDPHCLOB

FOR PH AND CHLORINE PROPORTIONAL CONTROL. LARGE SIZE POOL

- Controller LDPHCL
- Dosing pump for acid VMS MF 02 15 (15 l/h)
- Dosing pump for chlorine TMS MF 03 30 (30 l/h)
- Filter NFIL
- Probe pH EPHS
- Proximity sensor SEPR
- Temperature probe ETEPTCH18
- Open amperometric cell ECL6

Size: 800x800 mm
Customized coloured background on demand.

PA-LDPHCLOBG

FOR PH AND CHLORINE PROPORTIONAL CONTROL. LARGE SIZE POOL

- Controller LDPHCL
- Dosing pump for acid TMS MF 03 30 (30 l/h)
- Dosing pump for chlorine TMS MF 01 50 (50 l/h)
- Filter NFIL
- Probe pH EPHS
- Proximity sensor SEPR
- Temperature probe ETEPTCH18
- Open amperometric cell ECL6

Size: 800x800 mm
Customized coloured background on demand.
All-in-one systems

Controller based system with closed amperometric cell SCL3S/20 and PEF1

PA-LDPHCLLV & PA-LDPHBR

FOR DRY FEEDER OR SALT CHLORINE GENERATOR. MEDIUM SIZE POOL

- Controller LDPHCL
- Dosing pump for acid VMS MF 03 10 (10 l/h)
- Filter NFIL
- Proximity sensor SEPR
- Probe pH EPHS
- Chlorine probe SCL3S/20
- Temperature probe ETEPTCH18
- Probes holder PEF1R

PA-LDPHBR: Also available with bromine probe EBR 1/20.

Size: 600x800 mm
Customized coloured background on demand.

PA-LDPHCLVD

PH AND CHLORINE PROPORTIONAL CONTROL (INORGANIC/ORGANIC). MEDIUM SIZE POOL

- Controller LDPHCL
- Dosing pump for acid VMS MF 03 10 (10 l/h)
- Dosing pump for chlorine VMS MF 02 15 (15 l/h)
- Filter NFIL
- Proximity sensor SEPR
- Probe pH EPHS
- Chlorine probe SCL3S/20
- Temperature probe ETEPTCH18
- Probes holder PEF1R

Size: 600x800 mm
Customized coloured background on demand.
PA-LDPHCLVG

PH AND CHLORINE PROPORTIONAL CONTROL (INORGANIC/ORGANIC). BIG SIZE POOL

- Controller LDPHCL
- Dosing pump for acid VMS MF 02 15 (15 l/h)
- Dosing pump for chlorine TMS MF 03 30 (30 l/h)
- Filter NFIL
- Proximity sensor SEPR
- Probe pH EPHS
- Chlorine probe SCL3S/20
- Probes holder PEFIR

Size: 800x800 mm
Customized coloured background on demand.

PA-LDPHCLGD

PH AND CHLORINE PROPORTIONAL CONTROL (INORGANIC/ORGANIC). BIG SIZE POOL

- Controller LDPHCL
- Dosing pump for acid TMS MF 03 30 (30 l/h)
- Dosing pump for chlorine TMS MF 01 50 (50 l/h)
- Filter NFIL
- Proximity sensor SEPR
- Probe pH EPHS
- Chlorine probe SCL3S/20
- Probes holder PEFIR

Size: 800x800 mm
Customized coloured background on demand.
Advanced all-in-one systems

PA-M5D
& PA-CED

PH, ORP, FREE CHLORINE AND TEMPERATURE CONTROL

- Controller MAX5
- Dosing pump for acid VMS MF 03 10 (10 l/h)
- Dosing pump for chlorine VMS MF 02 15 (15 l/h)
- Filter NFIL
- Probe EPHS di pH
- Probe SCL3S/20 Free chlorine
- Proximity sensor SEPR
- Temperature probe ETEPTCH18
- Probe ERHS di ORP
- Probes holder PEF1R

Optional: also available with Centurio Pool controller

Size: 800x800 mm
Customized coloured background on demand.

The images contained in these pages are for illustrative purposes only. For more information on possible configurations, contact the sales office or your sales representative.
PH, ORP, FREE CHLORINE, TOTAL CHLORINE, COMBINED CHLORINE AND TEMPERATURE ANTI ALGAE AND FLOCCULANT TREATMENT

- Controller MAX5
- Dosing pump for acid VMS MF 03 10 (10 l/h)
- Dosing pump for chlorine VMS MF 02 15 (15 l/h)
- Dosing pump for flocculant VCLG
- Dosing pump for anti algae VMS MF 07 06 (6 l/h)
- Filter NFIL
- Probe di pH EPHS
- ORP probe ERHS
- Temperature probe ETEPTCH18
- Free chlorine probe SCL3S/20
- Total chlorine probe SCL8/20
- Proximity sensor SEPR
- Probes holder PEF22R

Optional: also available with Centurio Pool controller

Size: 1000x800 mm
Customized coloured background on demand.
Advanced all-in-one systems

PA-MD5DV & PA-CEDV

PH, ORP, FREE CHLORINE, TOTAL CHLORINE, COMBINED CHLORINE AND TEMPERATURE

- Controller MAX5
- Dosing pump for acid VMS MF 03 10 (10 l/h)
- Dosing pump for chlorine VMS MF 02 15 (15 l/h)
- Filter NFIL
- Probe di pH EPHS
- ORP probe ERHS
- Temperature probe ETEPTCH18
- Free chlorine probe SCL3S/20
- Total chlorine probe SCL8/20
- Proximity sensor SEPR
- Probes holder PEF22R

Optional: also available with Centurio Pool controller

Size: 800x800 mm
Customized coloured background on demand.

The images contained in these pages are for illustrative purposes only. For more information on possible configurations, contact the sales office or your sales representative.
PH, ORP, FREE CHLORINE, TOTAL CHLORINE, COMBINED CHLORINE AND TEMPERATURE

- Controller MAX5
- Dosing pump for acid TMS MF 03 30 (30 l/h)
- Dosing pump for chlorine TMS MF 01 50 (50 l/h)
- Filter NFIL
- Probe di pH EPHS
- ORP probe ERHS
- Temperature probe ETEPTCH18
- Free chlorine probe SCL35/20
- Total chlorine probe SCL8/20
- Proximity sensor SEPR
- Probes holder PEF22R

Optional: also available with Centurio Pool controller

Size: 1000x800 mm
Customized coloured background on demand.
Accessories

**EPHS**
P pH electrode for pressures up to 7 bar/70°C (3.5 bar/80°C).
0.8 m cable. Epoxy body. Minimum 100 μS.

**ERHS**
ORP electrode for pressures up to 7 bar/70°C (3.5 bar/80°C).
0.8 m cable. Epoxy body. Minimum 100 μS.

**BUFFER SOLUTIONS**
Buffer solutions for probes calibration.

**SCL8**
Total chlorine amperometric cell (organic and inorganic), from 0 to 2 mg/l; from 0 to 20 mg/l, pH and temperature compensated.

**ECL6 / ECL12**
Free chlorine / bromine amperometric cell (organic and inorganic), from 0 to 10 mg/l.
Flow switch and flow adjustment. Electrodes holder for pH, Redox and temperature.
With proximity switch mod. SEPR. 6x8 fittings.
With LED light sold as option.

**SCL3/20**
Free chlorine amperometric cell (organic and inorganic), from 0 to 10 mg/l, pH and temperature compensated.

**ETEPT**
Temperature probe PT100 (0°C÷100 °C, max 10bar).
Suitable for LDxx, LDPHxx and MaxS series instruments.

**PEF22R**
Holder for Chlorine, pH, Redox, free Chlorine, total Chlorine and temperature probes.
Provided type SEPR flow controller. Suited for operations with MAXS controller.
With LED light sold as option.
PEFIR
Off-line probes holder for ECL1/2/3/8/9/10/11 and pH, Redox and temperature, with flow switch and regulation. With proximity switch mod. SEPR, 6x8 fittings. With LED light sold as option.

NFIL CA
Activated 5" filter with carbon filter cartridge. 6x8 fittings. With LED light sold as option.

NFIL
Filter with cartridge. Washable. PET (60 μ). 6x8 fittings. With LED light sold as option.

SBR1/20
Amperometric cell for bromine (reading range from 0 to 20 mg/l), pH and temperature compensated.

NPED4
Off-line electrode holder for EPH and ERH electrodes. Epoxy Ø12 casing. Max temperature 50° C, max pressure 5bar with flow sensor, N.O. switch, 6x8 fittings. With LED light sold as option.

EVLA
Electrovalve for dry feeder (chlorine / bromine). 1/2" fitting.

PELC
PVDF in-line electrode holder for pH / Redox electrodes with 1/2" or 3/4" thread. For "T" connection.

PEL
PVDF in-line electrode holder for pH / Redox electrodes with 1/2" or 3/4" thread. For "T" connection.

PET (60 μ)
Filter with cartridge. Washable.
Accessories

**MIXN/8**  
High speed mixer 1400 RPM. AISI shaft-PVC coated, different lengths available (630-730-830-930 mm). Marine impeller, diameter 70mm.

**MIXN/8**  
Slow speed mixer 70/200 RPM. AISI shaft-PVC coated, different lengths available (630-730-830-930 mm). 3-blade impeller, diameter 150mm.

**MIXN/MAN**  
Manual mixer. PVC shaft, different lengths available (500-600 and 700-800 mm). Impeller diameter 130 mm.

**MIX “PISTON”**  
Manual mixer. PVC shaft, different lengths available (500-600 and 700-800 mm). Impeller diameter 130 mm.

**LASP**  
Suction lances with level control, for tanks up to 25 liters.

**LASP**  
Suction lances with level control, for tanks up to 1000 liters.

**LINIR**  
1/2" injection lance for dosing sodium hypochlorite in hard water. Self cleaning. FKM B o-ring, PVC body.

**PVDF INJECTION VALVE**  
PVDF made injection valve with 1/2" or 3/4" fittings.
**MF MULTIFUNCTION VALVE**
Multifunction valve (pressure, safety, antisiphon and bleed) 1/2” connections for different hoses diameters. FKM B or EPDM o-ring. PVDF body.

**LEVEL PROBE with FOOT FILTER**
Level probe with REED TYPER CONTACT. High temperature resistant, not influenced by viscosity, opacity, conductivity or dielectric constant (0 e 60°C).

**CHEMICAL TANKS & SAFETY BUNDS**
Chemical tanks made of polyethylene, UV resistant with safety bunds. For dosing pumps and mixers.

**CALCIUM HYPOCHLORITE DOSING STATIONS**
Our chemical tanks can be assembled with:
- 1 Dosing pump (or 2 without mixer) - 1 mixer
- 1 water loading faucet
- 1 outgassing valve
- 1 or 2 suction lances
- 1 water purging faucet
- 2 level probes with filter (without mixer)

Assembling made with two dosing pumps must use a double-suction lance and KDPV kit for connecting both the pumps.