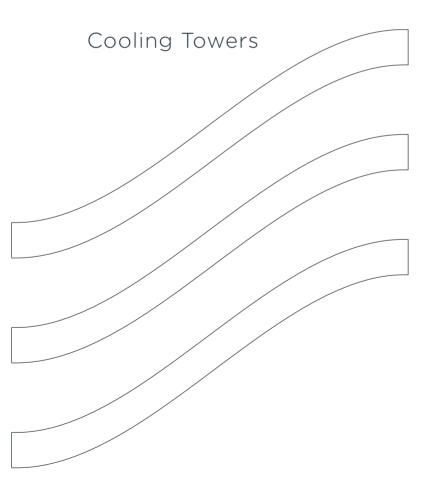
SIMPLE AS WATER



SIMPLE AS WATER

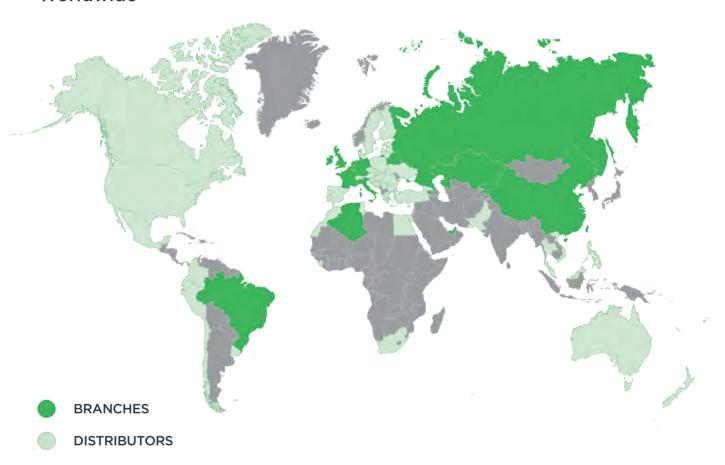




EMEC

WATER TREATMENT SYSTEMS

Worldwide



EMEC SIMPLE AS WATER

200 employees in Italy
54 countries
11 branches
24 distributors
150.000 dosing pumps/year
30.000 controllers/year
5.000 all-in-one solutions/year



100% MADE IN ITALY All our products are 100% Made in Italy



WARRANTY

5 years warranty for our dosing pumps and controllrers. *Terms and conditions apply*



Flexibility and innovation

Flexibility and innovation are fundamental to us.

Since 1982, we have been designing and producing reliable, cutting-edge systems 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.

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*.

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.

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.

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.

OUR CERTIFICATIONS









OUR SOCIAL CHANNELS

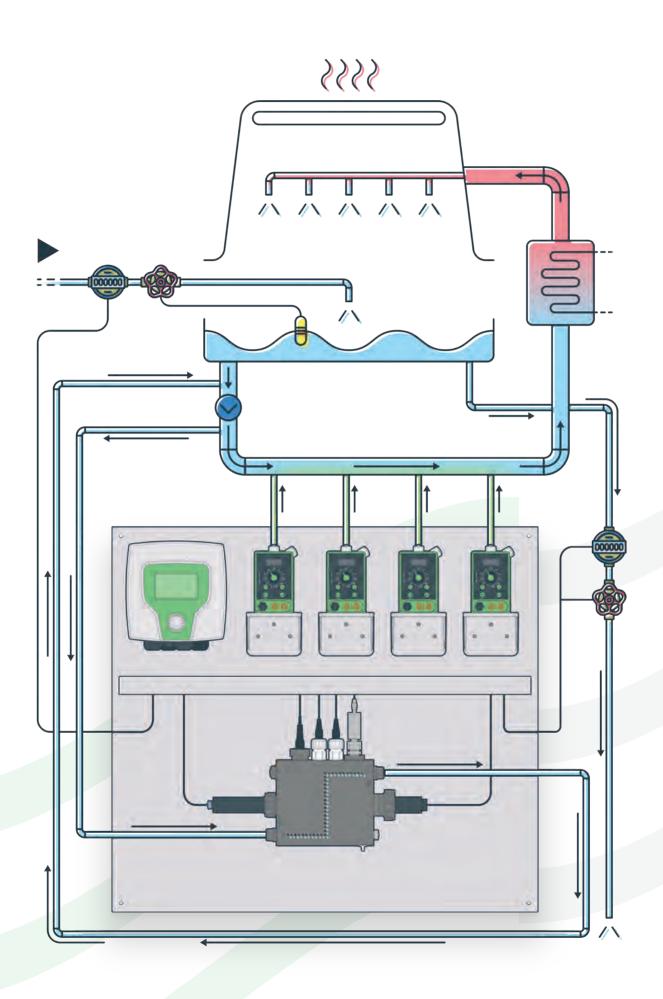












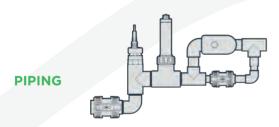


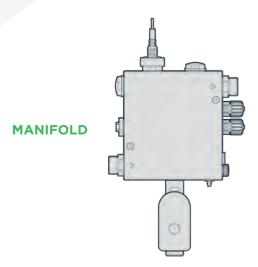
The most efficient management of cooling tower systems

Cooling towers can lower the temperature of water in a plant, whether civil or industrial, by evaporating a small but sufficient quantity of water to generate cooling of the entire circulating mass, allowing it to be reused (at a lower temperature) and thus limiting consumption.

For an efficient cooling system, however, continuous monitoring and, above all, careful water treatment is essential to prevent both corrosion of system components and the formation of bacterial biofilm or other potentially dangerous biological components.







From the very beginning, EMEC has been searching for the most complete solutions to offer the highest possible efficiency in cooling tower operation. With our experience we now features solutions for cooling tower systems both for the civil sector, such as hospitals, large apartment blocks, shopping centres, and for industries such as food, paper, pharmaceuticals, sugar refineries, the chemical industry through to the heavy industry of steel mills. For those who build cooling towers and for those who are involved in water treatment and in particular in the production of chemicals. Plug-and-play solutions were chosen for their ease of handling, with the aim of having all the equipment compactly in one place rather than split up in various locations.

Given the need to handle often aggressive chemicals, our solutions are also designed to safeguard the safety of operators.

HYDRAULIC SOLUTIONS

- Simple probe holders
- Piping or manifolds to be able to both measure and inject the chemicals used for conditioning
- Piping or manifolds to handle the purging on the panel but not the injection of the chemical
- Piping or manifolds for measuring, injection but also purging directly on the panel

COMPACT AND RELIABLE SOLUTIONS

- Conductivity measurement in recirculation water for purging with motorised valve for maintaining salinity
- In case of changes, second conductivity measurement for make-up water, with subsequent purge opening
- Measurement of make-up and/or purge flow rate for control of cycles of concentration, with totaliser.
- pH measurement for controlled pH towers with acid dosing and possible redundancy (i.e. two pH measurements, with the second to control the first)
- Redox potential measurement or hypochlorite or hypobromite for oxidising biocide control/dosing
- Timers for shock dosing of biocides
- Tracer product measurement, ppm measurement of dosed product
- Corrosion measurement with sensors in various materials to see MPY
- Turbidity measurement
- Dosing for various products, depending on flow rate or analytical measurement or timer

CABIN, SKID AND ASSEMBLED PANELS. ALL THE EMEC CHOICES

Our solutions

EMEC dosing pumps and measuring and control systems can be assembled with probes and accessories on panels according to specific combinations in order to offer turnkey all-in-one solutions for cooling tower systems.

Pre-assembled panels may have:

- pumps, controllers or elements owned by the customer and assembled by EMEC
- > customised logos
- > backgrounds chosen by the customer
- > customised sizes
- > custom power panels

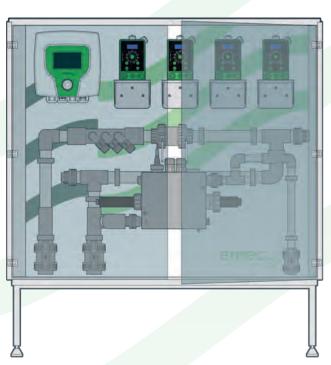
SYSTEMS ON SKIDS OR IN CUSTOM-MADE CABINS

The Stainless Steel or plastic skid is designed and built on client requirements.

In addition to the solution on skids, it is possible to create dosing plants in a cabin, screen guard or with window.

Electric control panels designed to control all the assembeld solution.

The final product includes electrical and piping hook-ups ready for installation.





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CENTURIO Series | CENTURIO TOWER OR CENTURIO PRO

Complete control system for cooling towers

CENTURIO BASIC | USB | ETH | GSM | WIFI | MODBUS

CENTURIO control instruments are multiparameter measurement and regulation systems that combine an absolute control and an extreme ease of use with the elegance of the case created by Giugiaro Design.

CENTURIO TOWER and CENTURIO PRO are digital control instrument designed for cooling tower water treatment and equipped with LINUX operating system, high-performance ARM A5 microprocessor and a large color touchscreen display. It can manage at the same time 5 measurement parameters, read and regulate setpoints of the 5 channels and get real-time graphs. CENTURIO has also an high-capacity storage to archive data logs as well as download option via USB port.

CENTURIO PRO is a complete digital control instrument designed for managing water treatment plants, equipped with LINUX operating system, high-performance ARM A5 microprocessor and a large color touchscreen display. It can manage at the same time the main measurement parameters, read and regulate setpoints of the 6 channels and get real-time graphs. CENTURIO has also an high- capacity storage to archive data logs as well as download option via USB port.

Centurio Tower available configurations:

CENTURIO TOWER - CONDUCTIVITY
CENTURIO TOWER - INDUCTIVE CONDUCTIVITY





FEATURES - CENTURIO TOWER

Biocide programmable in 10 daily interventions. Pre-bleed (water discharge before biocide dosing). Blow down (discharge control on conductivity values). Lockout (discharge valve locked for a settable time, after biocide dosing).

INPUTS

8 product level inputs Flow input 2 water meter inputs 1 RS485 bus probe input 6 slots for channels reading

FEATURES - CENTURIO PRO

For each reading channel:

2 digital setpoints (ON/OFF), 2 proportional setpoints (IS), 1 mA output setpoint, 1 temperature setpoint 6 timers with a maximum of 10 daily schedules each Laser level output

OUTPUTS

Alarm output

8 proportional outputs

6 on/off outputs

2 freecontact on/off outputs

6 current outputs

CHANNEL 1 - CENTURIO TOWER only

Conductivity

probe ECD/EICD

 $\begin{array}{c} \textbf{range} \, \Big| \, 0.1 \mu \text{S-}100 \text{mS} \, (\text{K=1}) - 0.01 \mu \text{S-}100 \text{mS} \, (\text{K=01}) \\ 0.001 \mu \text{S-}100 \text{mS} \, (\text{K=001}) - 1 \mu \text{S-}1\text{S} \, (\text{K=10}) \end{array}$

comp. Temperature

Inductive conductivity

probe ECDIND

range | 0,1-3mS (K=1) - 0,3-30mS (K=01) - 0,3-300mS (K=001)

comp. Temperature

CHANNEL 1 TO CHOOSE ONLY BETWEEN CONDUCTIVITY AND INDUCTIVE CONDUCTIVITY

CHANNELS 2 to 6 - CENTURIO TOWER CHANNELS 1 to 6 - CENTURIO PRO

n	ь	4
v		

probe EPH

comp. pH in Temperature - ECL6

range | 0-14 pH

comp. Temperature

ORP

probe ERH

range | -999/+999 mV

comp. Temperature

Chlorine (total, free and combined)

probe ECL/SCL

comp. | Chlorine in Temperature

range depending on probe

Tracers

probe ETRC2

range 0/999,9 ppm

comp. Temperature

Bromine

probe SBR

comp. | Chlorine in Temperature

range depending on probe

Corrosion

probe | ECORR

range | 0.001/10 MPY

comp. Temperature

probe SCL2

Chlorine Dioxide

comp. | Chlorine in Temperature

range depending on probe

Turbidity

probe ETORB2

range | 0/40,00 NTU 0/400,0 NTU 0/4000 NTU

comp. Temperature

Hydrogen peroxyde

probe SCL9

comp. | Chlorine in Temperature

range depending on probe

Ozone

probe SCL10

comp. | Chlorine in Temperature

range depending on probe

Paracetic Acid

probe SCL11

comp. | Chlorine in Temperature

range depending on probe

mA input

range | Analogic input module 0-20 mA

Conductivity

probe ECD/EICD

 $\begin{array}{c} \textbf{range} \, \middle| \, 0.1 \mu \text{S-}100 \text{mS} \, \left(\text{K=1}\right) \text{ - } 0.01 \mu \text{S-}100 \text{mS} \, \left(\text{K=01}\right) \\ 0.001 \mu \text{S-}100 \text{mS} \, \left(\text{K=001}\right) \text{ - } 1 \mu \text{S-}1\text{S} \, \left(\text{K=10}\right) \end{array}$

comp. Temperature

Inductive conductivity

probe ECDIND

range | 0,1-3mS (K=1) - 0,3-30mS (K=01) - 0,3-300mS (K=001)

comp. Temperature

MTOWER Series | MTOWER PLUS

Three parameters control system for cooling towers

MTOWER PLUS BASIC | USB | ETH | GSM | WIFI | MODBUS

MTOWER PLUS controllers are a series of fully feature control systems for cooling towers.

They manage simultaneously three parameters: pH or ORP, chlorine, conductivity or inductive conductivity (to specify on order) and temperature. Probes are not included.

They can be remotely controlled through the exclusive web management system ERMES.

Optional configurations:

MTOWER PLUS + mA output
MTOWER PLUS + 12VDC or 24VDC power supply



ALARMS

No water flow alarm 3 product levele alarms Bleed timeout alarm

INPUTS

6 product level inputs 2 water meter inputs Flow input Temperature probe input Stand-by input





OUTPUTS

mA output

CHANNEL 1 - MTOWER PLUS | CD/PH/CL and CD/PH/RH

Conductivity Inductive conductivity

probe | ECD/EICD

range | 0/300,0 μS

0/3000 μS 0/30,0 mS 0/300,0 mS

comp. Temperature

probe | ECDIND range | 0/3,000 mS 0/30,00 mS

comp. Temperature

0/300,0 mS

CHANNEL 2 - MTOWER PLUS | CD/PH/CL and CD/PH/RH

рΗ

probe EPH comp. pH in Temperature - ECL6

range | 0-14 pH

comp. | Temperature

CHANNEL 3 - MTOWER PLUS | CD/PH/CL only

Chlorine (total, free and combined) Hydrogen peroxyde

 probe
 ECL/SCL
 comp.
 Chlorine in Temperature

 probe
 SCL9
 comp.
 Chlorine in Temperature

range depending on probe

Bromine Ozone

 probe
 SBR
 comp.
 Chlorine in Temperature
 probe
 SCL10
 comp.
 Chlorine in Temperature

range depending on probe

Chlorine Dioxide Paracetic Acid

 probe
 SCL2
 comp.
 Chlorine in Temperature
 probe
 SCL11
 comp.
 Chlorine in Temperature

 range
 depending on probe
 range
 depending on probe

CHANNEL 3 - MTOWER PLUS | CD/PH/RH only

ORP

probe ERH

range | 0/1000 mV

comp. Temperature

MTOWER Series | MTOWER 1 or 2 CHANNELS

Single or double parameters control system for cooling towers

MTOWER 1CH or 2CH BASIC | USB | ETH | GSM | WIFI | MODBUS

MTOWER 1CH and MTOWER 2CH controllers are a series of fully feature control systems for cooling towers.

MTOWER 1CH manages one parameter: conductivity or inductive conductivity (to specify on order) and temperature. Probes are not included.

MTOWER 2CH manage simultaneously two parameters: pH or ORP or chlorine, conductivity or inductive conductivity (to specify on order) and temperature. Probes are not included.

They can be remotely controlled through the exclusive web management system ERMES.

Optional configurations:

MTOWER 2CH + mA output
MTOWER 2CH + 12VDC or 24VDC power supply



ALARMS

No water flow alarm 2 product levele alarms Bleed timeout alarm

INPUTS

6 product level inputs 2 water meter inputs Flow input Temperature probe input Stand-by input





OUTPUTS

mA output

CHANNEL 1 - MTOWER 1CH

12 | 13 MTOWER 2CH | CD/PH, CD/RH, CD/CL and CD/TRC

Conductivity

Inductive conductivity

probe ECDIND

probe ECD/EICD range $0/300,0 \mu S$ 0/3000 µS 0/30,0 mS

range 0/3,000 mS 0/30,00 mS 0/300,0 mS

comp. Temperature

0/300,0 mS

comp. Temperature

CHANNEL 2 - MTOWER 2CH | CD/PH only

рΗ

probe EPH

comp. pH in Temperature - ECL6

range 0-14 pH

comp. Temperature

CHANNEL 2 - MTOWER 2CH | CD/RH only

ORP

probe ERH

range 0/1000 mV

comp. | Temperature

CHANNEL 2 - MTOWER 2CH | CD/CL only

Chlorine (total, free and combined)

Hydrogen peroxyde

probe ECL/SCL

comp. | Chlorine in Temperature

probe SCL9 comp. | Chlorine in Temperature

range depending on probe

range depending on probe

Bromine

probe SBR

comp. | Chlorine in Temperature

probe SCL10

Ozone

comp. | Chlorine in Temperature

range depending on probe

range depending on probe

Chlorine Dioxide

probe SCL2

comp. | Chlorine in Temperature

probe SCL11

Paracetic Acid

comp. | Chlorine in Temperature

range depending on probe

range depending on probe

CHANNEL 2 - MTOWER 2CH | CD/TRC only

Tracers

probe ETRC2

range 0/9999,9 ppm

Basic solutions

Pre-assembled panel with Centurio Tower or MTower systems



FEATURES

Panel with MTOWER controller, for managing the bleed valve and chemical measurement and dosing, and for measuring the make-up and bleed flow rate.

Available in 4 versions: CD (only); CD/PH; CD/RH; CD/PH/RH.

Optional: Also available with Centurio Tower controller

Also available with customised colour background

CONDUCTIVITY

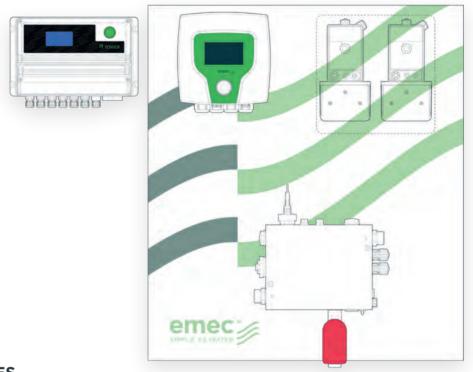
controller MTOWER-CD	controller MTOWER-CD-PH	controller MTOWER-CD-RH	controller MTOWER-CD-PH-RH
p. holder NPED4	p. holder NPED4	p. holder NPED4	p. holder NPED4
probe ECDCCPT1	probe ECDCCPT1-EPHS	probe ECDCCPT1-ERHS	probe ECDCCPT1-EPHS-ERHS

INDUCTIVE CONDUCTIVITY

controller MTOWER-CDIND	controller MTOWER-CDIND-RH	controller MTOWER-CDIND-pH	controller MTOWER-CDIND-PH-RH
p. holder MANIFOLD-E-3	p. holder MANIFOLD-E-3 NPED1	p. holder MANIFOLD-E-3 NPED1	p. holder MANIFOLD-E-3 NPED1
probe ECDCCPT1	probe ECDCCPT1-EPHS	probe ECDCCPT1-ERHS	probe ECDCCPT1-EPHS-ERHS

Basic solutions

Pre-assembled panel with Centurio Tower or MTower systems



FEATURES

Panel with MTOWER controller, for managing the bleed valve and chemical dosing, equipped with 2 dosing pumps and make-up and bleed flow measurement. Equipped with MANIFOLD, 1" controllable bleed valve, 2 dosing pumps, 2 injection points.

Available in 4 versions: CD (only); CD/PH; CD/RH; CD/PH/RH.

Optional: Also available with Centurio Tower controller

Also available with customised colour background

CONDUCTIVITY

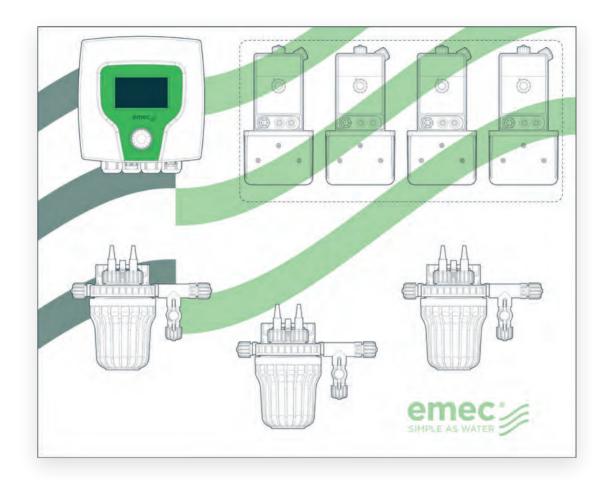
controller MTOWER-CD	controller MTOWER-CD-PH	controller MTOWER-CD-RH	controller MTOWER-CD-PH-RH
p. holder MANIFOLD 1EV	p. holder MANIFOLD PLUS 1EV	p. holder MANIFOLD PLUS 1EV	p. holder MANIFOLD PLUS 1EV
probes ECDCCPT1	probes ECDCCPT1 EPHS	probes ECDCCPT1 ERHS	probes ECDCCPT1 EPHS ERHS
pumps Up to 2x KMF1504 (with bracket)			

INDUCTIVE CONDUCTIVITY

controller MTOWER-CDIND	controller MTOWER-CDIND-PH	controller MTOWER-CDIND-RH	controller MTOWER-CDIND-PH-RH
p. holder MANIFOLD 1EV-IND	p. holder MANIFOLD PLUS 1EV-IND	p. holder MANIFOLD PLUS 1EV-IND	p. holder MANIFOLD PLUS 1EV-IND
probes ECDCCPT1	probes ECDIND EPHS	probes ECDIND ERHS	probes ECDIND EPHS ERHS
pumps Up to 2x KMF1504 (with bracket)			

Intermediate solutions

Pre-assembled panel with Centurio Tower system



FEATURES

Panel with CENTURIO PRO controller, up to 3 conductivities, therefore up to 3 purges, equipped with 4 dosing pumps: one for inhibitor in make-up function and 3 for biocide shock dosing. (Up to 6 purges can be implemented).

Available in 2 versions: Capacitive CD and Inductive CD.

Optional: Also available with customised colour background

CONDUCTIVITY

INDUCTIVE CONDUCTIVITY

controller | CENTURIO PRO-CD-CD

p. holder 3x NPED4

probes 3x ECDCCPT

pumps | Up to 4x KMF1504 (with bracket) controller | CENTURIO PRO-CDIND-CDIND

p. holder 3x MANIFOLD-3-E

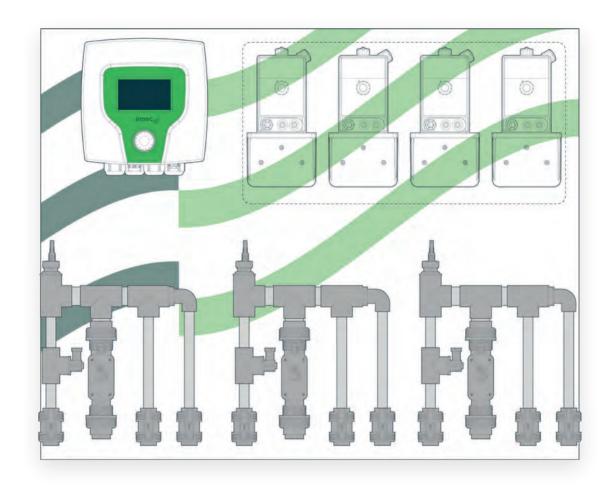
probes 3x ECDIND

pumps | Up to 4x KMF1504 (with bracket)

The images on this page are for illustrative purposes only, for more information on possible configurations, please contact the sales department or your sales representative

Intermediate solutions

Pre-assembled panel with Centurio Tower system



FEATURES

Panel with CENTURIO PRO controller, up to 3 conductivities, therefore up to 3 purges, equipped with EV and 4 dosing pumps: one for inhibitor in make-up function and 3 for biocide shock dosing. (Up to 6 purges can be implemented).

Available in 2 versions: Capacitive CD and Inductive CD.

Optional: Also available with customised colour background

CONDUCTIVITY

controller | CENTURIO PRO-CD-CD

 $\mathbf{p.\,holder}\,\big|\,3x\,$ PIPING with EV

probes 3x ECDCCPT

pumps | Up to 4x KMF1504 (with bracket)

INDUCTIVE CONDUCTIVITY

controller | CENTURIO PRO-CDIND-CDIND

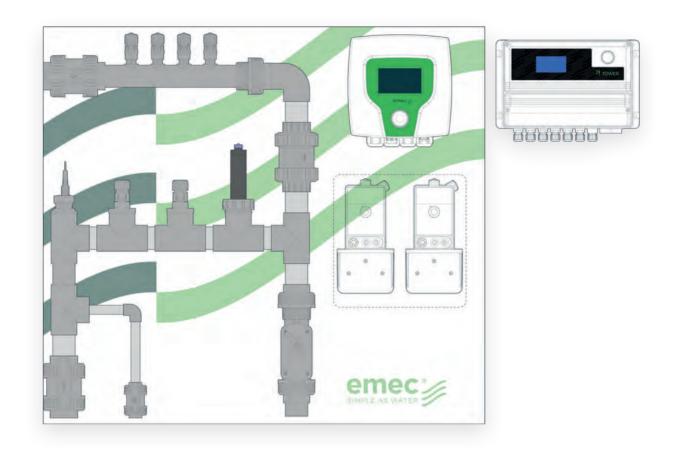
p. holder | 3x PIPING with EV

probes 3x ECDIND

pumps | Up to 4x KMF1504 (with bracket)

Intermediate solutions

Pre-assembled panel with Centurio Tower or MTower systems



FEATURES

Panel with CENTURIO/MTOWER controller, with three measurements (CD, pH and Redox), measurement and metering of make-up and purge flow, with PIPING for measurement, 11/4" purge and 4 injection points, equipped with 2 dosing pumps (expandable).

Available in 2 versions: Capacitive CD and Inductive CD.

Optional: Also available with customised colour background

CONDUCTIVITY

INDUCTIVE CONDUCTIVITY

controller | CENTURIO/MTOWER-CD-PH-RH

p. holder | PIPING with EV and injection points

probes | ECDCCPT EPHS ERHS

pumps Up to 2x KMF1504

(with bracket)

controller | CENTURIO/MTOWER-CD-PH-RH

p. holder | PIPING with EV and injection points

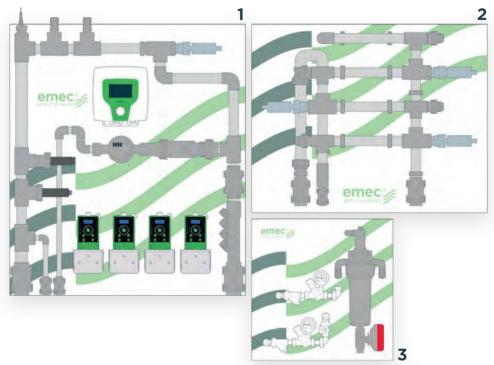
probes | ECDIND EPHS ERHS

pumps | Up to 2x KMF1504 (with bracket)

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Top of the range solutions

Modular pre-assembled panels with Centurio Tower system



FEATURES

Top of the range panel with CENTURIO-TOWER controller, with up to 6 measurements (CD, pH and Redox, Tracer, Corrosion and Turbidity), measurement and metering of make-up and purge flow rate, with litre counter and valve on the panel, with PIPING for measurement, 11/4" purge and 4 injection points, equipped with 4 dosing pumps. With separate panels for turbidity probe and double/triple corrosion measurement.

The panel is modular so you can remove or put in probes, valves, dosing pumps.

Available in 2 versions: Capacitive CD and Inductive CD.

Optional: Also available with customised colour background

1 - CONDUCTIVITY

1 - INDUCTIVE CONDUCTIVITY

controller | CENTURIO

 $\mathbf{p.\,holder}\,\big|\,\,\mathsf{PIPING}$ with EV and injection points for purge flow rate

measurement

probes | ECDCCPT

ETRC2

ECORR

EPHS

ERHS

pumps | Up to 4x KMF1504 (with bracket)

controller | CENTURIO

 $\mathbf{p.\,holder}\,\big|\,\mathsf{PIPING}$ with EV and injection points for purge flow rate

measurement

probes | ECDIND

ETRC2

ECORR EPHS

ERHS

pumps | Up to 4x KMF1504 (with bracket)

3- TURBIDITY

p. holder | NPED TORB

probes ETORB2

other | Cleaning Kit

2 - CORROSION

probes Up to 3x ECORR

other | Corrosion specimen holder kit

Series LDS | LDS OR LDS PLUS

LDS is a single reading system with setpoints LDS PLUS is a single reading system with PID regulation

LDS or LDS PLUS BASIC | USB | ETH | GSM | WIFI | MODBUS

LDS PLUS controllers are a series of single reading digital systems with PID regulation. LDS controllers are a series of single reading controllers that meet a wide range of applications.

Both of two have: easy control by encoder wheel, flow control, local & remote control, ERMES web communication, permanent data storage with system log, PT100 temperature probe, stand-by input, water meter input (only LDS PLUS), alarms, programmable delay at dosing start-up (up to 60 minutes), automatic temperature compensation, probe readout menu (LDSCDIND PLUS / LDSCDIND), different working modes [on/off, impulsive proportional, proportional PWM and fixed

PWM, PID (only LDS PLUS)], automatic or manual dosing activity, mA output (optional for LDS), mA water meter input (optional for LDS PLUS only), probe cleaning and 5 relais [2 setpoint; alarm; probe cleaning; circulation (only for LDS PLUS)].

Optional configurations:

LD MULTICHANNEL PLUS + mA output LD MULTICHANNEL PLUS + 12VDC or 24VDC power supply LD MULTICHANNEL PLUS + LED strip



ALARMS

General alarm
No water flow alarm
Out of range alarm
Level alarm
Max dosing alarm
Damaged probe alarm



Alarm output
mA output (optional for LDS)
Proportional outputs
Set points outputs (only for LDS PLUS)
Relay outputs
Opto coupled output (only for LDS PLUS)

1odbus

INPUTS

Product level inputs
Flow input
mA water meter input (only for LDS PLUS)
Temperature probe input
Stand-by input

CH 1 - LDS or LDS PLUS CD only

Conductivity

probe ECD/EICD

range $0/300,0 \mu S - 0/3000 \mu S - 0/30,0 mS - 0/300,0 mS$

comp. |Conductivity in temperature

CH 1 - LDS or LDS PLUS | CDIND only

Inductive conductivity

probe ECDIND

range | 0/3,000 mS - 0/30,00 mS - 0/300,0 mS

comp. | Conductivity in temperature

CH 1 - LDS or LDS PLUS | PH only

рΗ

probe EPH

comp. pH in Temperature - ECL6

range 0-14 pH

ORP

probe ERH

range 0/1000 mV

CH 1 - LDS or LDS PLUS | CL only

Chlorine (total, free and combined)

probe | ECL/SCL

comp. | Chlorine in Temperature

range depending on probe

Hydrogen peroxyde

probe | SCL9

comp. | Chlorine in Temperature

range depending on probe

CH 1 - LDS or LDS PLUS RH only

Bromine

probe SBR

comp. | Chlorine in Temperature

range depending on probe

Ozone

probe | SCL10

comp. | Chlorine in Temperature

range depending on probe

Chlorine Dioxide

probe SCL2

comp. | Chlorine in Temperature

range depending on probe

Paracetic Acid

probe SCL11

comp. | Chlorine in Temperature

range depending on probe

CH 1 - LDS or LDS PLUS | ETORB2 only

Turbidity

probe ETORB2

range 0/4000 NTU

CH 1 - LDS or LDS PLUS DO only

Dissolved Oxygen

probe EOLUM

range 20 mg/l O₂

comp. Temperature and pressure

CH 1 - LDS or LDS PLUS TRC only

Tracers

probe ETRC2

range 0/9999,9 ppm

CH 1 - LDS or LDS PLUS | FL only

Fluoride

probe EFL

range conc. 0/3,00 ppm (0,01 ppm) - mV 0/1000,00 ppm (0,01 ppm)

Basic solutions

Pre-assembled panel with LDS system



FEATURES

Panel with LDSCD controller for purge valve management, with socket probe-holder.

Avail. in 2 versions: Capacitive CD and Inductive CD.

Optional: Also available with customised colour

packground

CONDUCTIVITY

controller LDS-CD

p. holder NPED4

probe | ECDCCPT

INDUCTIVE CONDUCTIVITY

controller | LDS-CDIND

p. holder | MANIFOLD-E-3

probe ECDIND



FEATURES

Panel with LDSCD controller for managing the 1" partitionable bleed valve, included in the panel.

Avail. in 2 versions: Capacitive CD and Inductive CD.

Optional: Also available with customised colour

background

CONDUCTIVITY

 ${\bf controller}\,\big|\,{\sf LDS\text{-}CD}$

p. holder PIPING with 1" EV

probe | ECDCCPT

INDUCTIVE CONDUCTIVITY

 $\textbf{controller} \, \Big| \, \mathsf{LDS}\text{-}\mathsf{CDIND}$

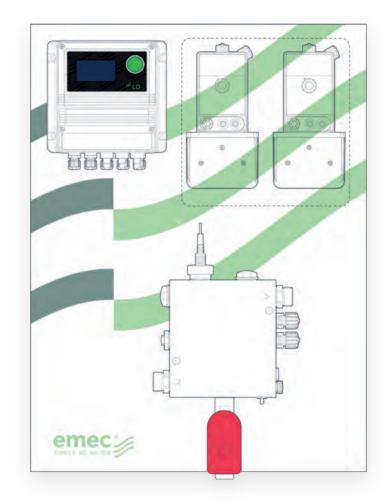
p. holder | PIPING with 1" EV

probe | ECDIND

Pre-assembled panel with LDS system







FEATURES

Panel with LDSCD controller for managing the 1" partitionable bleed valve, included in the panel, equipped with a shock timer pump and an inhibitor pump, with injection points.

Available in 2 versions: Capacitive CD and Inductive CD.

Optional: Also available with customised colour background

CONDUCTIVITY

controller LDS-CD

p. holder | MANIFOLD with 1" EV

probes | ECDCCPT

pumps | KMF1504 (with bracket) KEN1504 (with bracket)

INDUCTIVE CONDUCTIVITY

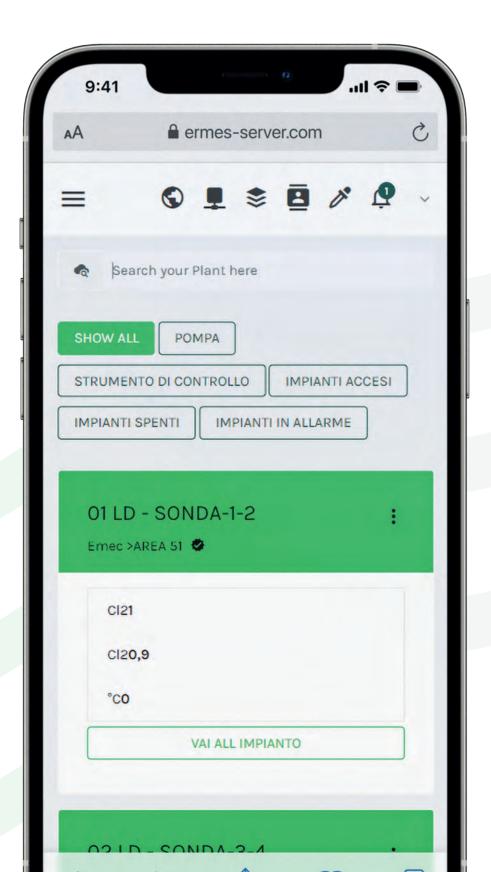
controller LDS-CDIND

p. holder | MANIFOLD with 1" EV with 2 injection points

probes 3x ECDIND

pumps | KMF1504 (with bracket) KEN1504 (with bracket)

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.

HOW DOES ERMES WORK?

Enter **www.ermes-server.com**, register for free, configure and name your systems. All EMEC controllers with encoder and ETHERNET or 3G/4G configuration will be immediately connected and available.

In addition to the remote control, through ERMES you can receive, via email, alarm messages with various report options on the status of your systems, including loss of communication.

If you have a controller with 3G/4G configuration you can also receive reports on your phone via SMS.

On request, the controllers can be supplied with a SIM card and mobile data subscription (only on controllers equipped with a 3G/4G module. Subscription paid by the customer).

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 systems
- Activity log like graphs and charts that can be downloaded on your PC (excel or pdf)

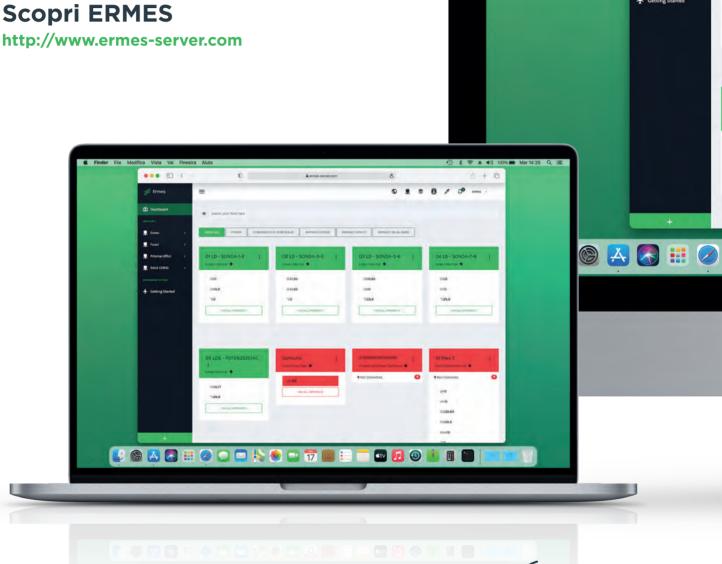
EMEC COMPATIBLE SYSTEMS *for Cooling Towers:*

CENTURIO TOWER	(p. 8-9)
M-TOWER PLUS	(p. 10-11)
M-TOWER 2 CH	(p. 12-13)
M-TOWER	(p. 12-13)
LDS PLUS	(p. 20-21)
LDS	(p. 20-21)

CONFIGURATION	FEATURES	CONNECTION TYPE	REQUIREMENTS	FUNCTIONS
BASIC	/	/	/	RS485 link to EMEC instruments
ADVANCED USB	USB	Download data log from controller to Usb drive	/	RS485 link to other EMEC instruments Data Log recording on USB drive
ETHERNET	LAN network	Remote control via WEB APP ERMES (www. ermes-server.com)	LAN (RJ-45) network	RS485 link to other EMEC instruments ERMES Web App (PC, smartphone, tablet) Email Alarm messages
3G/4G	MOBILE connection	Remote control via WEB APP ERMES (www. ermes-server.com)	Mobile Network Coverage	RS485 link to other EMEC instruments ERMES Web App (PC, smartphone, tablet) Email/SMS Alarm messages
MODBUS	PLC connection to other devices via RS485 or TCP/IP (only Centurio)	PLC plant management	/	PLC connection output for parameters reading/setting
WIFI	WIFI connection between instru- ment and web	Remote control via WEB APP ERMES (www. ermes-server.com)	WIFI Network Coverage	RS485 link to other EMEC instruments ERMES Web App (PC, smartphone, tablet) Email Alarm messages



Fast, Easy and Intuitive YOUR SMART ASSISTANT









MULTILANGUAGE WEB PLATFORM

MULTIPLE LEVELS ACCESS

PUSH STATUS NOTIFICATIONS

ERMES interface is available in different languages: English, Italian, French and German.

Adding more users into your system and setting different access levels for every plant.

Setting of push notifications about your plants status to be sent via SMS or email.



Real-time display of all parameters of your plants and status check of all the functioning probes.

UNDER CONTROL

Real-time managing and setting of all parameters of your plants.

OPERATIONS

REAL-TIME GRAPHS
VISUALIZATION

Displaying all parameters of your plants as graphs, both from real-time data and from history of saved data.

