INNOVATIVE EXPERIENCE

EMEC

THIRTY YEARS OF LEADERSHIP

EMEC ranks among Italy's top, consolidated industrial actors in the field of electronic control systems for fluids metering and management applications. Our products are designed and manufactured for both industrial and small-scale applications.

We are an all-Italian business entity with a clear strategic outlook, right from the outset, striving to merge design innovation with a long-term industrial footing. Our high-precision, hi-reliability products are entirely designed and assembled at our Rieti facilities.

EMEC's reputation as a market leader is expanding both in Italy and internationally, boosting demand for our quality, Italian designer products.

QUALITY FIRST

Our products are supported by passion and a solid industrial background. At EMEC, we have always sought to identify and seize investment opportunities, committing our resources to technology and human resources.

That key to our success - and what sets us apart from market competitors - is our complete control of the production cycle, reliant on specialist business set-ups and resources. Our approach feeds into all aspect ahead of end product delivery: systems design, component production and assembly, software programming and final testing. In line with total quality commitments, we provide installation and maintenance specialists with up-to-date training for both our household and industrial products.

Our retail and commercial units operate with a technical mindset, encompassing a firm grounding in all aspects of design and production; as such, they stimulate product innovation and enhancements based on Customer requirements, feedback and field experience. That approach makes us ideal partners when it comes to delivering targeted solutions to specific requirements. Our claims are anything but overstated: complete control, to us, is the only viable approach to ensuring total product quality and effective service delivery.

A CONSTANLY EVOLVING WORLD

Our 30-year industrial footing has bred constant improvements in all our products, expanding range and functions. Our range of products is currently implemented in a broad range of settings:

- *Pools*
- *Saunas*
- *Industrial water treatment*
- *Drinking water treatment*
- *Irrigation*
- *Chemical industry*
- *Processing industry*
- *Cooling towers*
- *Refineries*
- *Car wash*

100% MADE IN ITALY

All our products are manufactured in our factory in Italy.

SUSTAINABILITY

Respecting and safeguarding the environment are the core values underpinning our business. In keeping with that commitment we engage in and promote all actions designed to curb the environmental impact of our processes, products and raw materials, on a life-cycle basis. Our company implements an Environmental Management System compliant with UNI ENI ISO 14001 standards, subject to ongoing updates.

Our goal is to curb atmospheric emissions, rationalise water consumption and enact appropriate waste management policies. Environmental impact assessments cover new products, process innovations and public tenders.

We are committed to providing our employees and staff with appropriate information and training concerning our company policy and its implementation with respect to both the workplace and our products.

CERTIFIED SKILLS AND VALUES

EMEC's values and reliability are the result of a long-standing commitment to quality and detail. We testify to that commitment through ongoing human resources training, rigorous abidance by production benchmarks, and concerted efforts to curb all employee health hazards.

Our pledge is a firm one and is backed by our policy implementation and investment goals. Our global quality approach matches our market standing and is certified by the world's leading certification institutes.

qualityaustria
SYSTEM CERTIFIED
ISO 9001:2008
OHSAS 18001:2007
ISO 14001:2004

IQNet

C UL US
LISTED
3JBM

EMEC WORLDWIDE

WARRANTY

All our solenoid pump membrane have 5 years warranty.

PRODUCT DESIGN

Design underpins the production process, driving each and every aspect of our work at EMEC. Our every effort is geared towards delivering a timely, accurate and effective response to our customers' requirements. The resources allocated to our design and development division reflect that: close to 10% of our company's human capital. Our in-house engineers and technicians design and develop software and hardware, as well as test hydraulic and mechanical components.

OUTSTANDING PROFESSIONALS

Our in-house professionals carry unparalleled qualifications, gained through years of experience and dedication. Our team boasts years of hand-on experience and regularly takes part in ongoing professional training, allowing us to be on top of chemical handling and industry developments. EMEC offers its clients highly trained, skilled professionals, whose proven credentials and wealth of experience are nothing less than leading-edge.

PRODUCTION

The high standards to which we deliver, on a daily basis, both our services and products, comes from our uncompromising dedication to quality. Total quality is our industrial hallmark, and quality is what sets our products apart from the broader market.

WORKSHOP

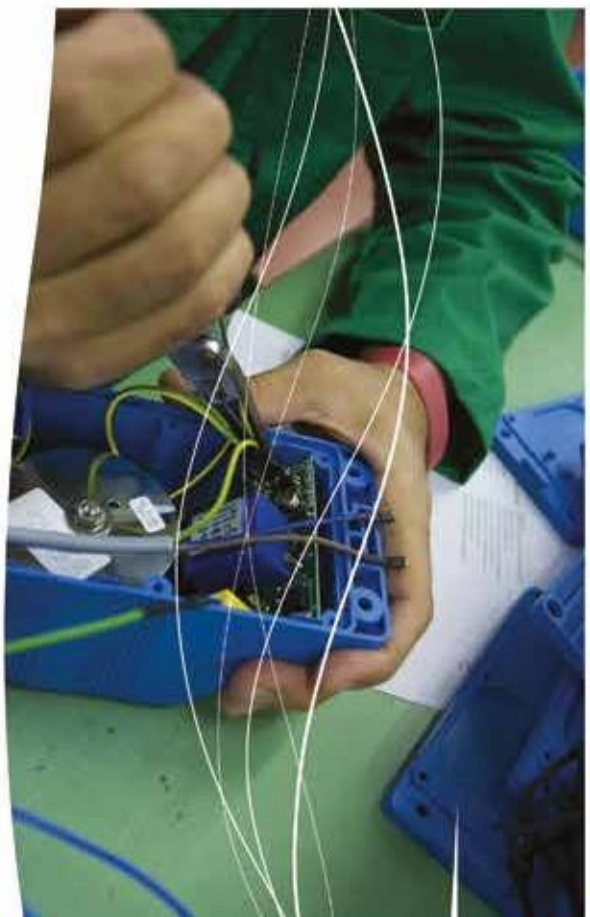
With on-site manufacturing facilities we are a notch above the competition. At EMEC we take pride in ensuring full internal control over all aspects of production. As much as it implies an onus, product reliability is our foremost pledge, one that cannot be delivered by outsourcing the production of key product components.
Our workshop's capabilities are also crucial to the design stage, ensuring full control over product and systems development and customization, offering customers a complete solution to their requirements.

ASSEMBLY

Our unparalleled experience and professional know-how also come to bear during the delicate assembly stage, where high quality components come together to form top-of-the-range products. Our components list features as many as 40,000 items: a figure which, on its own, testifies to the scale of our commitment to resources and standards.

TEST CENTER

Low quality isn't an option for us. Substandard products defy efforts to secure a market standing, generate the added burden of production recalls and inevitably compromise subsequent product placement.
Our efforts to apply rigorous self-assessment standards are reflected in the quality of our products. Each and every component is subject to rigorous internal testing, with three layers of testing contributing to assembled product reliability. Such stringent standards ensure significantly inferior damage probability, heightened lifetime and optimal operation of our products.



SALES

Our solid customer base is proof of our ongoing commitment to delivering reliable products to high price-quality standards. On top of that, our clients can rely on our constant support leading up to and after product purchase. Pre- and post-sales services address all of our customers' product requirements and potential customization needs.

CUSTOMIZATION

Total control over production allows us to offer clients a broad set of customization options, ranging from individual branding and product component options, to substantial hardware and software departures from standard product specifications.

SALES NETWORK

As sales network partners you are part of the broader EMEC project, you're not just sales agents. Our sales managers boast a firm technical grounding and in-depth knowledge of the production cycle, offering client focused, practical insights into our product range. Our every effort is geared towards offering customer-led solutions, establishing full-fledged partnerships with our clients. At EMEC we exceed our role as suppliers, focusing on solving as well as preventing product issues.

SALES DESK

Our sales department's back office ensures that every aspect of product supply, from order through to delivery, runs smoothly. Any issues or problems arising during the course of supply are dealt with in timely fashion, cutting any potential delays to a minimum. Our sales desk's efficient handling of client inquiry translates into 40% of orders being adapted during the first contact stage. EMEC has a close to zero customer-loss record.

POST-SALES ASSISTANCE

Following delivery we provide ongoing support for our products, ensuring onsite maintenance and inspection services, as well as remote support. Our Max5 system, for instance, allows us to provide Sydney-based clients with immediate software updates direct from our Rieti office via remote PC applications. We provide real-time, multi-language customer assistance during out-of-office hours.

TRAINING

At EMEC we fully understand the complexity of each industry's ever-changing challenges and that the products we develop need to be handled by qualified, trained personnel. That understanding inspired the establishment of the EMEC Training Program: a scheme built around modules, addressing topics spanning technology and chemistry. Our most senior, expert sales account managers are entrusted with providing the training. At EMEC we believe that experienced account managers can exceed their sales role and deliver value-added service to our customers.

TRAINING WITH A PURPOSE

Anyone who has taken part in our Program knows that the scope of training goes well beyond providing static learning requirements. EMEC training courses seek to target issues of practical consequence, providing insights into the workings of our products, building solution-oriented approaches.

1. METERING PUMPS

2. LOTUS - CHLORINE DIOXIDE GENERATOR

3. INSTRUMENTS

4. PROBES

5. CUSTOMIZED SOLUTIONS

Metering Pumps

AMS Series

Flow rate up to 15,85 USG/h, working pressure up to 363 psi

Manual stroke length adjustment
Manual or self venting
High strength membrane -5- year warranty
Horizontal mounting
PVDF pump head

AMS MF	digital multi-function
AMS PH	built-in pH reading and adjustment
AMS RH	built-in ORP reading and adjustment

AMS PLUS	constant / constant 1-10
	multiplier 1-10
	divider 1-10 / 1-100 / 1-1000
	mA current signal
AMS CO PLUS	constant. Pulses divider 0/10.
AMS CL PLUS	constant whith level control. Pulses divider 0/10.

PUMP HEADS

PVDF | PP | AISI316 | PMMA | LPV | P

SUPPLIED ACCESSORIES

Level Probe with foot filter

1/2" or 3/4" Injection valve

Metering Pumps

KMS Series

Flow rate up to 4,22 USG/h, working pressure up to 290 psi

Manual stroke length adjustment
Manual or self venting
High strength membrane -5- year warranty
Horizontal mounting
PVDF pump head

KMS DC	digital constant
KMS MF	digital multi-function
KMS PH	built-in pH reading and control
KMS RH	built-in ORP reading and control
KMS EN	weekly timer and solenoid valve control
KMS CL	built-in chlorine reading and control

K PLUS	constant / constant 1-10
	multiplier 1-10
	divider 1-10 / 1-100 / 1-1000
	mA current signal
K CO PLUS	constant with divider 1/10
K CL PLUS	constant with level control and divider 1/10

PUMP HEADS

PVDF PP AISI316 PMMA LPV P

SUPPLIED ACCESSORIES

Level Probe with foot filter

1/2" Injection valve

Metering Pumps

TMS Series

Flow rate up to 26,41 USG/h, working pressure up to 290 psi

Electronic flow adjustment
Manual or self venting
High strength membrane - 5 - year warranty
Wall mounting
PVDF pump head

TMS DC	digital constant
TMS MF	digital multi-function
TMS PH	built-in pH reading and control
TMS RH	built-in ORP reading and control

TCO	constant
TCL	constant with level control

PUMP HEADS

PVDF PP P

SUPPLIED ACCESSORIES

Level Probe with foot filter

1/2" or 3/4" Injection valve

Metering Pumps

VMS Series

Flow rate up to 4,49 USG/h, working pressure up to 290 psi

Electronic flow adjustment
Manual or self venting
High strength membrane - 5 - year warranty
Wall mounting
PVDF pump head
Also available quiet and ultra-quiet models

VMS MF	digital multi-function
VMS PO	built-in pH or ORP reading and control (set by menu)
VMS EN	weekly timer and optional solenoid valve control
VCO	constant
VCL	constant with level control

PUMP HEADS

PVDF Self venting | PP Self venting | PVDF Manual venting | PP Manual venting

SUPPLIED ACCESSORIES

Level Probe with foot filter | 1/2" Injection valve

Metering Pumps

WDPHxx Series

Flow rate up to 2,64 USG/h, working pressure up to 73 psi

Digital programmable controller with double metering pumps
Wall mounting
Easy control by ENCODER wheel with EASY-NAV rotation
Double PVDF pump head
RS485 output for remote control

WDPHRH	acid (pH) and disinfectant (ORP)
WDPHCL	acid (pH) and chlorine
WDPHCF	acid, flocculant (gr/h) and 115 VAC output for chlorine
WDPHCA	acid, anti-algae and 115 VAC output for chlorine
WDPHOS	acid (pH) and active oxygen

PUMP HEADS

PVDF Self venting | PP Self venting | PVDF Manual venting | PP Manual venting

SUPPLIED ACCESSORIES

Level Probe with foot filter

1/2" Injection valve

Metering Pumps

WTx Series

Flow rate up to 2,64 USG/h, working pressure up to 218 psi

Digital programmable cooling tower controller with double metering pumps
Wall mounting
Double PVDF pump head

WTC inhibitor proportional feed, biocide weekly timer, conductivity bleed
WT IND WTC version with inductive conductivity probe

PUMP HEADS

PVDF

PP

SUPPLIED ACCESSORIES

Level Probe with foot filter

1/2" Injection valve

WTC
Ecdcc probe

WTC IND
Ecdsind probe

Motorized valve (optional)

Metering Pumps

RAC Series

Car Wash

Compressed Air driven pumps
3 installing modes: horizontal, wall and DIN mounting
Multiple pumps installation (side by side)
Single injection control knob

RAC	Pneumatic
RACV	Pneumatic with electrovalve
RACP	Pneumatic with priming button

PUMP HEADS

Pump Head Diaphragm

INSTALLING OPTIONS

Bara DIn Wall Horizontal

SUPPLIED ACCESSORIES

Foot filter 1/2" Injection valve

Metering Pumps

PRIUS

Flow rate up to 140 USG/h, working pressure up to 145 psi

PRIUS D

Motor driven diaphragm metering pump

- Solid Teflon diaphragm pump heads with built in priming valve
- Stroke length adjustment
- Single and three phase motors.
- 0.18 and 0.37 kW motors sizes
- 50 and 60 Hz motors
- Foot valve with filter, injection valve and tubing included in the pumps with capacities up to 63,40 USG/h

PUMP HEADS

PVDF PP AISI316 PVC

PRIUS

Flow rate up to 84,53 USG/h, working pressure up to 1450 psi

PRIUS D HIGH PRESSURE

Motor driven diaphragm metering pump

- SS pump head
- Solid Teflon diaphragm
- Stroke length adjustment
- Single and three phase motors

PUMP HEADS

AISI316

PRIUS

Flow rate up to 63,40 USG/h, working pressure up to 145 psi

PRIUS D ATEX

Motor driven diaphragm metering pump

- SS pump head
- Solid Teflon diaphragm
- Stroke length adjustment
- Single and three phase motors

CE Ex II 2 G c IIB T3, T4

CE Ex II 2 D IIIC T125°C, resp T135°C

PUMP HEADS

AISI316

Metering Pumps

PRIUS

Flow rate up to 84,53 USG/h, working pressure up to 145 psi

PRIUS P

Motor driven piston metering pump

- Ceramic and SS pistons
- SS and PP pump heads
- Stroke length adjustment
- Single and three phase motors
- 0.18 and 0.37 kW motors sizes
- 50 and 60 Hz motors

PRIUS P - PUMP HEADS

PP AISI316

PRIUS

Flow rate up to 140 USG/h, working pressure up to 145 psi

PRIUS D MF - PRIUS P MF

Motor driven diaphragm or piston metering pump

- Available for diaphragm, high pressure diaphragm and piston pumps
- 115 VAC single phase power supply
- Wide display with clear information and easy navigation system with the click and turn wheel.
- Gear box can be rotated on the field 90 degrees for optimal installation
- Operating modes: - Constant - ppm - % - MLQ - Batch - V - mA - Duty/Pause - Weekly timer
- Level input

PRIUS D MF - PUMP HEADS

PVDF PP AISI316 PVC

PRIUS P MF - PUMP HEADS

PP AISI316

Pumps Accessories

Efficiency products

CHEMICAL TANKS & SAFETY BUNDS

Chemical tanks made of polyethilene, UV resistant with safety bunds.
For dosing pumps and mixers.

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.

MIXVN/8

High speed mixer 1400 RPM.
AISI shaft-PVC coated, different lengths available (24,80-28,74in).
Marine impeller, diameter 2,75 in.

MIXN/8

Slow speed mixer 65/200 RPM.
AISI shaft-PVC coated, different lengths available (24,80-28,74in).
3-blade impeller, diameter 5,91 in.

MIXN/MAN

Manual mixer.
PVC shaft, different lengths available (17,72-25,59 in and 30,31-43,31 in).
Impeller diameter 3,54 in.

MIX “PISTON”

Manual mixer.
PVC shaft, different lengths available (17,72 in).

Pumps Accessories

Efficiency products

LASP

Suction lances with level control, for tanks up to 264,17 USG.

LINI R

1/2” injection lance for dosing sodium hypochlorite in hard water. Selfcleaning. FKM B o-ring. PVC body.

MF MULTIFUNCTION VALVE

Multifunction valve (pressure, safety, antisyphon and bleed) 1/2” connections for different hoses diameters. FKM B or EPDM o-ring. PVDF body.

SEFL

Flow sensor with PVDF body, N.C. contact and adjustable sensitivity.

Max 113° F - 363 psi

CWFA

Woltmann water pulse sender water meter, dry dial.

Max 140° F - 232 psi

CTFI

Cold water pulse sender water meter.

Max 86° F - 232 psi

CATFI - dry dial

CWFAT

Woltmann water pulse sender water meter, dry dial and PTFE internal/ external coating.

Max 140° F - 232 psi

CTFIT

Cold water pulse sender water meter and PTFE internal/external coating.

Max 86° F - 232 psi

Chlorine dioxide generator

LOTUS MINI

LOTUS MINI is all-round solution for all your need for water disinfection, it is a safe and solid. It can also be controlled remotely via the web application ERMES through a gsm modem or a lan adapter and modbus is available as option. It comes with a nice looking cover that protects from accidental sprays. Chlorine dioxide produced by LOTUS MINI can to be proportional to the circulating water flow or based on a measured setpoint. There is no storage of chlorine dioxide hence no chlorine dioxide gas or concentrated solutions exist outside of the process application.

RANGE: 0,28-0,71 oz/h MAX CAPACITY: 16,93 oz/day

ADVANTAGES

- **Reaction at controlled pressure**
- High degree of stability of the chlorine dioxide solution
- No ClO2 loss due to closed reaction chamber
- Diluted chemicals

Avaible also equipped with a ClO_2 probe (SCL2 or SCL17) or a Redox probe (ERH), a probe holder and a filter.

GAS SENSOR OPTION

LOTUS MINI with gas sensor detection.

FUNCTIONS

- Instantaneous ClO_2 production
- ClO_2 dosing in proportional mode
- Flow control input (flow alarm)
- Tank level controls (level alarms)
- Water meter input
- Stand-by input
- Real time production data
- Pumps and SEFL flow sensors monitoring
- Permanent data storage with system data log (on Logbook menu)
- ERMES communication
- USB data log (option)
- Ethernet module (option)
- GSM/GPRS internal modem (option)
- Service due date
- mA output

FEATURES

- ClO_2 concentration: 0,07 oz/USG
- Flow control input (flow alarms)
- Tank level control (level alarms)
- HCl (red), $NaClO_2$ (blue) and dilution water (grey) metering pumps
- 3 SEFL pump dosing check
- MFKT/V multifunction valve as pressure, safety, anti-syphon and bleed valve
- PVC reaction chamber
- ASA (Acrylonitrile Styrene Acrylate) or fiber glass enclosure
- IP65 protection (NEMA4x) of LOTUS control instrument and pumps
- Wheel control for easy programming
- Working temperature: 32-113° F

LOTUS AIR is a is a pressure-less chlorine dioxide generator useful for those applications in which several injection point are required.It can also be controlled remotely via the web application ERMES through a gsm modem or a lan adapter and modbus is available as option. It comes with a nice looking cover that protects from accidental sprays.

RANGE: 0,35-2,12 oz/h MAX CAPACITY: 50,79 oz/day

FUNCTIONS

- BATCH chlorine dioxide production
- ClO_2 dosing in proportional mode
- Alarms: products, water, emptying
- Water meter input
- Stand-by input
- Real time production data
- Pumps and SEFL flow sensors monitoring
- Service due date
- ERMES communication
- ClO_2 concentration in water measurement and control

ADVANTAGES

- **Reaction at ambient pressure**
- Multi-point injection
- No emission
- Diluted chemicals

Avaible also equipped with a ClO_2 probe (SCL2 or SCL17) or a Redox probe (ERH), a probe holder and a filter.

FEATURES

- ClO_2 concentration: 0,07 oz/USG
- HCl (red), NaClO2 (blue) and ClO2 (grey) metering pumps
- MFKT/V multifunction valve as pressure, safety, anti-syphon and bleed
- Double chamber: reaction and storage
- ASA (Acrylonitrile Styrene Acrylate) or fiber glass enclosure
- IP65 protection (NEMA4x) of LOTUS control instrument and pumps
- Wheel control for easy programming
- Working temperature: 32-113° F

GAS SENSOR OPTION

LOTUS MINI with gas sensor detection.

Chlorine dioxide generator

ATR

LOTUS MAXI is the largest product of our family of generators of chlorine dioxide, is used in all those cases in which there is need of a big production, such as large water treatment plants. Chlorine dioxide produced by LOTUS MAXI is set to be proportional to the circulating water flow or based on a setpoint, it is then dosed into the water flow.

RANGE: 2,82-35,27 oz/h MAX CAPACITY: 846,57 oz/day

FUNCTIONS

- Instantaneous ClO_2 production
- ClO_2 dosing in proportional mode
- Flow control input (flow alarm)
- Tank level controls (level alarms)
- Water meter input
- Stand-by input
- Real time production data
- Pumps and SEFL flow sensors monitoring
- Permanent data storage with system data log (on Logbook menu)
- ERMES communication
- USB data log (option)
- Ethernet module (option)
- GSM/GPRS internal modem (option)
- Service due date
- mA output

ADVANTAGES

- **Reaction at controlled pressure**
- **Large-scale applications**
- High degree of stability of the chlorine dioxide solution
- No ClO_2 loss due to closed reaction chamber
- Diluted chemicals

GAS SENSOR OPTION

LOTUS MAXI with gas sensor detection.

FEATURES

- ClO_2 concentration: 0,07 oz/USG
- Flow control input (flow alarms)
- Tank level control (level alarms)
- HCl (red) and NaClO2 (blue) metering pumps
- 3 SEFL flow sensors as security
- MFKT/V multifunction valve as pressure, safety, anti-syphon and bleed
- PVC reaction chamber
- ASA (Acrylonitrile Styrene Acrylate) enclosure
- IP65 protection (NEMA4x) of LOTUS control instrument and pumps
- Wheel control for easy programming
- Working temperature: 32-113° F

LOTUS
MAXI

LOTUS EASY is the best solution if you want a simple but professional way to produce chlorine dioxide, an integrated All-in-One, Controller with two metering pumps.
Chlorine dioxide produced by LOTUS EASY can be proportional to the circulating water flow or based on a measured setpoint, it is then dosed into the water flow.
LOTUS EASY is designed so that the reaction to produce chlorine dioxide takes place in a reaction chamber.

RANGE: 0,28-2,82 oz/h MAX CAPACITY: 67,73 oz/day

FUNCTIONS

- Instantaneous ClO_2 production
- ClO_2 dosing in proportional mode
- Level alarms
- Water meter input
- Stand-by input
- Real time production data
- Pumps and SEFL flow sensors monitoring
- Service due date
- By-pass flow detection
- mA (0-20mA) input

ADVANTAGES

- **Reaction at controlled pressure**
- High degree of stability of the chlorine dioxide solution
- No ClO_2 loss due to closed reaction chamber
- Diluted chemicals

FEATURES

- ClO_2 concentration: 0,07 oz/USG
- Level alarms
- 2 flow sensors
- MFKT/V multifunction valve as pressure, safety, anti-syphon and bleed
- Static mixer
- PVC reaction chamber
- Working temperature: 32-113° F
- 23,62 x 31,5 in panel mounting
- By-pass diametre: 1” 1/2 in

ERMES

Software for complete remote configuration and control of instruments

ADVANTAGES

- reduces plant intervention and inspections.
- reports on the current status of the network's devices and connections (probes, outputs, alarms, setpoints)
- instantly gives notification of alarms by sms or email
- generates an up to date report of all plant instruments
- can display the instruments activity log as line graphs and charts and it can download it to your pc in excel or pdf format

HOW DOES ERMES WORK?

Enter the website **www.ermes-server.com** and, after registration, set your plants.
EMEC instruments with ETHERNET or GSM/GPRS Configuration will be immediatly connected and available for remote control.
Furthermore, with ERMES you can receive alarm messages via email, with different report option on instrument status. If your instrument has a GSM/GPRS Configuration you can receive SMS report on your mobile. All EMEC latest controllers are ERMES ready:

- MAX5
- LD MULTICHANNEL
- LD WITH ENCODER (wheel)
- MTOWER
- WD

How to select a configuration

CONFIGURATION	FEATURES	CONNECTION TYPE	REQUIREMENTS	FUNCTIONS
BASIC	/	LOCAL CONTROLLER NETWORK	/	RS485 link to EMEC instruments / PC
ADVANCED USB	USB	Download datalog from controller to Usb Pendrive	/	RS485 link to EMEC instruments / PC Data Log recording on PENDRIVE
ETHERNET	LAN	Remote control via WEB APP (www.ermes-server.com) or with PC APP	LAN (RJ-45)	RS485 link to EMEC instruments / PC ERMES Web App (PC, smartphone, tablet) Email Alarm messages
GSM/GPRS	MOBILE	Remote control via WEB APP (www.ermes-server.com) or with PC APP	Network Coverage	RS485 link to EMEC instruments / PC ERMES Web App (PC, smartphone, tablet) Email / SMS Alarm messages

You can CUSTOMIZE configurations adding external modules.
Mixed configurations allows to connect instruments to ERMES software in multiple ways: directly, locally and remotely. Those configurations extend connection capacity.
If you already use EMEC instruments and you want use ERMES web application, contact our customers service.

MAX5 Series

5 channels plus 1 for temperature

Water treatment
Cooling towers
Industrial chemical dosing
Depuration
Swimming pools disinfection

Factory parameter configuration.

- pH
- ORP (ORP)
- Chlorine (total, free and combined)
- Chlorine dioxide
- Hydrogen Peroxide
- Ozone
- Peroxyacetic acid
- Turbidity
- Conductivity (contact or inductive)
- Dissolved oxygen
- Temperature
- Bromine

Its versatility allows different programming solutions: each channel can be programmed on user needs.
All information is provided through a widescreen LCD display (240x64).

Instrument has:
- 6 setpoints output (on/off, PID or PWM) and 6 proportional output
- 1 Temperature setpoint
- 1 probe cleaning output
- 5 level tank input
- 5 daily/weekly timer for multiple options like flocculant, algicide, lights...
- Water meter input for water restore
- Temperature probe input
- Alarm output
- Wheel with "EASY-NAV" control
- ERMES web communication
- Local & Remote Controlled
- Multiple probe readings can be viewed
- Probe readout menu
- Probes check up
- Permanent data storage with system log
- Stand-by input
- Alarms: damaged probes - max dosage - 2 overflow alarms per channel - 5 product level alarms - flow alarm
- Totalizer for instant flow rate

OPTIONS
- MODBUS protocol

LD Multichannel Series

2 channels plus 1 for temperature

Water treatment
Cooling towers
Industrial-level chemical dosing
Depuration
Agriculture
Swimming pools disinfection

Factory parameter configuration.

- pH
- ORP
- Chlorine/Bromine
- Conductivity
- Inductive Conductivity
- Chlorine Dioxide
- Hydrogen peroxyde
- Ozone
- Peracetic acid
- Turbidity

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 - reading. Programmable delay at dosing start-up (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 EBR (LDPHCL), Flocculant pump control, mA output (option).

Options:
- USB for data log recording
- Current Output (0/4 - 20 mA)
- Ethernet
- GSM/GPRS modem
- MODBUS protocol

LDPHRH pH (0-14) - ORP (0-1000mV) - °F (32-392)
LDPHCL* pH (0-14) - Chlorine (0-10 ppm Cl_2) - °F (32-392)
LDPHBR pH (0-14) - Bromine (0-10 ppm Br) - °F (32-392)
LDPHO2 pH (0-14) - O_2 (0-200 ppm H_2O_2) - °F (32-392)
LDPHCD pH (0-14) - Conductivity (depending on the probe) - °F (32-392)
LDPHCDIND pH (0-14) - Inductive conductivity (0-3 mS|0-30mS|0-300mS) - °F (32-212)
LDPHTORBH pH (0-14) - Turbidity (0-9999 NTU) - °F (32-212)

LD - Custom configurations on client request.

*On order please specify parameters and chlorine probe model.

LDS-LDS PLUS Encoder Series

1 channel plus 1 for temperature

Water treatment
Cooling towers
Industrial-level chemical dosing
Depuration
Agriculture
Swimming pools disinfection

Factory parameter configuration.

- pH
- ORP
- Chlorine/Bromine
- Conductivity
- Inductive Conductivity
- Chlorine Dioxide
- Hydrogen peroxyde
- Ozone
- Peracetic acid
- Turbidity
- Dissolved Oxygen

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).

Options for LDS and LDS PLUS:

- USB for data log recording
- Current Output (0/4 - 20 mA)
- Ethernet
- GSM/GPRS modem
- MODBUS protocol

PLUS Features:

- 5 relais (2 setpoint; alarm; probe cleaning; circulation)
- Probe cleaning
- PID

LDSPH - LDSPH PLUS pH (0-14) - °F (32-392)
LDSRH - LDSRH PLUS ORP (0-1000 mV) - °F (32-392)
LDSCL - LDSCL PLUS Chlorine (0-10 ppm Cl_2) - °F (32-392)
LDSCD - LDSCD PLUS Conductivity (depending on the probe) - °F (32-392)
LDSCDIND - LDSCDIND PLUS Inductive conductivity (0-3 mS|0-30mS|0-300mS) - °F (32-212)
LDSTORBH - LDSTORBH PLUS Turbidity (0-9999 NTU) - °F (32-212)
LDSTRC - LDSTRC PLUS Markers (0-9999 ppm) - °F (32-392)
LDSFR - LDSFR PLUS Fluorine (1E-5-1M) - Concentration (0-300 ppm) - °F (32-140)

Instruments

MTOWER Series

Up to 3 channels

Cooling towers

Features

- Conductivity for blowdown
- 2 Timers for biocides
- Pre-bleed
- Lockout

Factory parameter configuration.

- pH
- ORP
- Chlorine
- Conductivity or Inductive conductivity
- Temperature

Easy control by ENCODER wheel with "EASY-NAV" rotation, Current Feed&Bleed display, Local & Remote Controlled, ERMES web communication, Simultaneous multiple view for probes reading, Permanent data storage with system log, Stand-by input, mA output (option). Working modes: on/off, impulsive proportional, proportional PWM and fixed PWM. Pre-bleed: Reduced water system conductivity before biocide dosing. Blow down: Discharge control on conductivity values, Lockout: Discharge valve locked for a settable time (after biocide dosage). Timeout: Maximum discharge valve opening time, Programmable delay at dosing start-up (up to 99 minutes), PT100 temperature compensation. Alarms: conductivity (high/low), Bleed timeout (conductivity not reached after set time), product level, flow, meter activity, not restored water.

Options:
- Conductivity inductive probe.
- USB for data log recording
- Current Output (0/4 - 20 mA)
- Ethernet
- GSM/GPRS modem

3 CHANNELS MODELS
MTOWER PLUS CD/PH/CL: controller for conductivity, pH and chlorine
MTOWER PLUS CD/PH/RH: controller for conductivity, pH, ORP

2 CHANNELS MODELS
MTOWER CD/PH: controller for conductivity and pH
MTOWER CD/RH: controller for conductivity and ORP
MTOWER CD/CL: controller for conductivity and Chlorine

1 CHANNEL MODELS
MTOWER CD: controller for conductivity

Panel instruments

1 channel plus 1 for temperature

Water treatment
Cooling towers
Industrial-level chemical dosing
Depuration
Agriculture
Swimming pools disinfection

"JC" SERIES

96x96 RACK MOUNTING SINGLE READING

JC PH: pH
JC RH: ORP
JC CL: Chlorine (Total - Free) - Chlorine Dioxide - Hydrogen Peroxyde - Ozone - Bromine - Peracetic Acid
JC CD: controller for conductivity

"J DIGITAL" SERIES

96x48 RACK MOUNTING SINGLE READING

J DIGITAL PH: pH
J DIGITAL RH: ORP
J DIGITAL CL: Chlorine (Total - Free) - Chlorine Dioxide - Hydrogen Peroxyde - Ozone - Bromine Peracetic Acid
J DIGITAL CD: Conductivity
J DIGITAL O3: Ozone
J DIGITAL O2: Dissolved Oxygen
J DIGITAL CLO2: Chlorine Dioxide
J DIGITAL TEMP: Temperature

"DIN DIGITAL" series

RAIL MOUNTING (6 modules) SINGLE READING

DIN DIGITAL PH: pH
DIN DIGITAL RH: ORP
DIN DIGITAL CL: Chlorine (Total - Free) - Chlorine Dioxide - Hydrogen Peroxyde - Ozone - Bromine Peracetic Acid
DIN DIGITAL CD: Conductivity
DIN DIGITAL O3: Ozone
DIN DIGITAL O2: Dissolved Oxygen
DIN DIGITAL CLO2: Chlorine Dioxide
DIN DIGITAL TEMP: Temperature

Probes

SCL - Closed amperometric cells

Free chlorine (organic and inorganic) for fresh water, total chlorine, chlorine dioxide, hydrogen peroxyde, ozone, peracetic acid, bromine.

ECL - Open amperometric cells

Free chlorine (organic and inorganic) for fresh water and salt water.

EPH - pH probes

Working temperature max 158° F
Working pressure max 102 psi

ERH - ORP probes

Working temperature max 158° F
Working pressure max 102 psi

EOLUM - Dissolved Oxygen probes

Working temperature max 122° F
Working pressure max 145 psi

ETORBH - Turbidity probes

Working temperature max 77° F
Working pressure max 87 psi

ETRC - Inline Fluorometer

Working temperature max 122° F
Working pressure max 102 psi

Probes

EFL - Fluoride ione probes

Working temperature max 158° F
Working pressure max 102 psi

ECDHL - Conductity, Platinum electrodes

Working temperature max 158° F
Working pressure max 102 psi

ECDC - Conductity, Graphite electrodes

Working temperature max 140° F
Working pressure max 102 psi

ECDI - Conductity, Stainless Steel electrodes

Working temperature max 140° F
Working pressure max 102 psi

EICD - Conductity Stainless Steel probes

Working temperature max 266° F
Working pressure max 218 psi

ECDIND PT - Inductive Conductity probes

Measuring range up to 300,00 mS
Working temperature max 185° F
Working pressure max 116 psi
L 5,94 in Ø 1,75 in

ECDSIND PT - Inductive Conductity probes

Measuring range up to 10,00 mS
Working temperature max 185° F
Working pressure max 116 psi
L 4,13 in Ø 1,29 in

Probes Accessories

NPED

Off-line probe holders.
Working temperature 32°/122° F
Maximum pressure 73 psi

PEF

Off-line probe holders for closed amperometric cells.

PEL

In-line probe holders.

NFIL

Filters.
Maximum temperature 140° F
(86° F NFIL/CA)
Filtration degree 60 µ / 150 µ

P

Immersion probe holders.
Optional compressed air or water self cleaning system
(automatic or manual control).

MANIFOLD

With flow sensor as well as housing for the conductivity probe.
Optional motorized valve, two injection points and even additional measurement probes

Maximum pressure 116 psi
Maximum temperature 167° F

BUFFER SOLUTIONS

Buffer solutions for probe calibration.

Mixing and Dosing Station & SKID

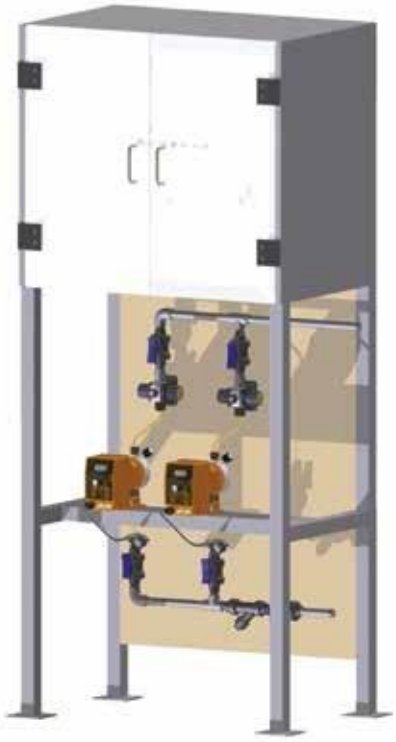
MIXING AND DOSING STATION

Storage, dosing, all regulation in one single system.
Dosing stations are assembled to include:

- Dosing pumps
- Suction lances
- Mixer
- Water makeup valve
- Water bleed valve

Dosing stations are complete solutions ready to go.

PLANTS 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.

Anti-Legionella

Sanitary hot water lines disinfection

- Easy maintenance
- Automatic re-priming
- Tailor-made solutions
- Custom panels for specific treatments
- Remote Control

Sample panel

Customized solutions

Pools & SPA

Complete system for reliable protection

| Multiple parameters measurement and control

| Complete control and dosing systems for pH, ORP, Free chlorine, Chlorine, Combined chlorine, Temperature, Bromine, Ozone, Flocculant and Algicide

| Scent and essences dosing, foot-bath disinfection systems, dechloration system for filters cleaning waters

pH and active oxygen measurement and control

| Remote Control

Sample panel

Potable and waste water

Water treatment for a clearer, safer, better tasting and better smelling water

- Chlorination system
- Pre-treatment and final disinfection of potable waters
- Disinfection with sodium hypochlorite or calcium hypochlorite
- Real time monitoring
- Remote Control

Sample panel

Cooling towers

Sample panel

Cooling towers & Industrial water treatment

- Efficient measuring system
- Complete monthly report
- Accurate conductivity control
- Pre-assembled skids
- Remote Control

Sample panel