emec

BLAUTEC®

SOLUCIONES
HIDRÁULICAS
PARA LA INDUSTRIA

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METERING PUMPS

PRISMA
Stepper motor-driven

- Stepper motor
- Multifunction control
- High strength PTFE membrane -5- year warranty
- Foot mounted
- LCD display

Modbus®

STEPPER MOTOR

| SLOW SUCTION MODE |
| EXTERNAL CONSTANT DOSING |
| TURNDOWN RATIO 1:4800 |
| MULTICOLOR DISPLAY |
| MULTIFUNCTION |

MODE DE FONCTIONNEMENT

CONSTANT	CONSTANT à commande externe
PPM	%	MA	PAUSE-TRAVAIL	HEBDOMADAIRE
MLQ	PULSE	VOLT	BATCH Externe/Manuel

PRISMA BLUETOOTH
Configuration available
with extra-charge

PUMP HEADS

PVDF   PP   AISI316L   PMMA

SUPPLIED ACCESSORIES

Level Probe   1/2" or 3/4"
with foot filter   Injection valve

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METERING PUMPS

Flow rate up to 80 L/hr, working pressure up to 20 bar

FEATURES

Thanks to the new stepper motor and to the MultiFunction software, PRISMA dosing pumps offer complete control over dosing speeds and working modes as well as great flexibility and repeatability, meeting even particularly complex application needs. PRISMA is also equipped with Level control, Alarms and Stand-by, while available working modes include Constant, Constant with external input, ppm, %, mlq, Pause-work, Weekly, mA, Pulse, Volt, external Batch and manual Batch.
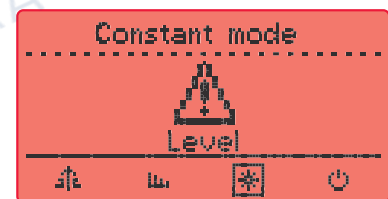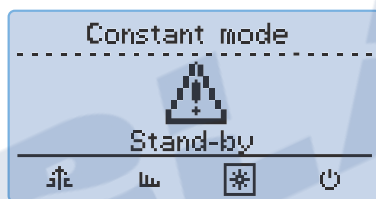
PRISMA dosing pumps feature the Encoder control knob for quickly browsing through the configuration menus and a large display to easily control and regulate the working parameters. By changing background colors PRISMA backlight display is capable of signaling different working status: pump running (green); stand-by (white); warning condition (yellow); alarm condition (red).

TURNDOWN

PRISMA stepper motor-driven pumps give you the most accurate control over the stroke speed, providing an outstanding turndown ratio of up to 4800:1. It means PRISMA, through its digital multifunction control, can split up the dosing process into a maximum of 4800 steps in order to offer the most homogeneous and precise distribution of the product to dose according to the required application.

SLOW MODE

Extreme versatility of PRISMA dosing pumps is also due to Slow Mode function. With Slow Mode enabled you can reduce the suction speed to 75, 50 or 25% of the normal speed, making easier, more reliable and extremely accurate the priming and the dosing even when you have to handle particularly viscous liquids.

CAPACITY RANGE				
PRESSURE	CAPACITY	Pump head (PVDF)	Injection hose (PVDF)	Suction hose
20 bar	1 l/h	I	4 x 6	4 x 6
25 bar	2 l/h	L	4 x 6	4 x 6
20 bar	5 l/h	L	4 x 6	4 x 6
16 bar	7,5 l/h	L	4 x 6	4 x 6
10 bar	13 l/h	M	6 x 8	6 x 8
7 bar	20 l/h	N	6 x 8	6 x 8
5 bar	28 l/h	N	8 x 10	8 x 12
4 bar	50 l/h	N	8 x 10	8 x 12
2 bar	80 l/h	N	8 x 10	8 x 12

METERING PUMPS

AMS Series

Flow rate up to 60 L/hr, working pressure up to 25 bar

- 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 PLUS	constant / constant 1-10
AMS PH	built-in pH reading and adjustment		multiplier 1-10
AMS RH	built-in ORP reading and adjustment		divider 1-10 / 1-100 / 1-1000
			mA current signal
		AMS CO PLUS	constant with divider 1/10
		AMS 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″ or 3/4″
Injection valve

METERING PUMPS

K Series

Flow rate up to 18 L/hr, working pressure up to 20 bar

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 adjustment
KMS RH	built-in ORP reading and adjustment
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

T Series

Flow rate up to 100 L/hr, working pressure up to 20 bar

- 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 adjustment
TMS RH	built-in ORP reading and adjustment

TCO	constant
TCL	constant with level control

PUMP HEADS

PVDF   PP   LPV   P

SUPPLIED ACCESSORIES

Level Probe with foot filter

1/2″ or 3/4″ Injection valve

METERING PUMPS

V Series
Flow rate up to 16 L/hr, working pressure up to 20 bar

Réglage électronique du débit
Purge manuelle ou automatique
Membrane haute résistance - garantie 5 ans
Montage mural
Tête de pompe en PVDF
Modèles silencieux et ultra-silencieux également disponibles

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

VCO	constant
VCL	constant with level control

PUMP HEADS

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

SUPPLIED ACCESSORIES

Level Probe with foot filter

1/2" Injection valve

METERING PUMPS

WDPHXX Series
Flow rate up to 10 L/hr, working pressure up to 7 bar

- 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 230 VAC output for chlorine

WDPHCA	acid, anti-algae and 230 VAC output for chlorine
WDPHOS	acid (pH) and active oxygen

PUMP HEADS

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

SUPPLIED ACCESSORIES

Level Probe with foot filter

Clapet d'injection 1/2"

METERING PUMPS

RAC Series
Car Wash

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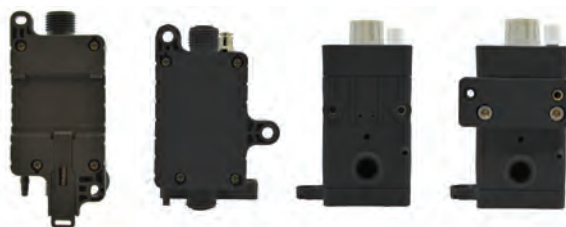Multiple pumps installation (side by side)
Single injection control knob

RAC	Pneumatic
RACV	Pneumatic with electrovalve
RACP	Pneumatic with priming button

PUMP HEADS

Pump Head   Diaphragm

INSTALLING OPTIONS

DIN rail   Wall   Horizontal

SUPPLIED ACCESSORIES

Foot filter   1/2" Injection valve

METERING PUMPS

1F PRIUS

Flow rate up to 1000 l/h, working pressure up to 10 bar

PRIUS D MF
Multifunction motor driven diaphragm dosing pumps

- PTFE diaphragm
- 230 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 - pause-work - pulse - weekly - mA - Volt and Batch
- Level input
- Stand-by
- MODBUS (optional)
- IP65 Motor (optional)

PUMP HEADS

| PVDF | PP | AISI316 | PVC |

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METERING PUMPS

PRIUS

Flow rate up to 320 l/h, working pressure up to 10 bar

PRIUS P MF
Multifunction motor driven plunger dosing pumps

- Ceramic or SS plunger
- 230 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 - pause-work - pulse - weekly - mA - Volt and Batch
- Level input
- Stand-by
- MODBUS (optional)
- IP65 Motor (optional)

PUMP HEADS

PP   AISI316L

PLUNGERS

CERAMIC (SIALOX96)   AISI420

METERING PUMPS

⫸ PRIUS

Flow rate up to 1000 l/h, working pressure up to 10 bar

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, 0.37 and 0.55 kW motors sizes

- 50 and 60 Hz motors
- Foot valve with filter, injection valve and tubing included in the pumps with capacities up to 240 l/h

PUMP HEADS

PVDF   PP   AISI316L   PVC

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METERING PUMPS

PRIUS

Flow rate up to 508 l/h, working pressure up to 10 bar

PRIUS P
Motor driven plunger metering pump

- Ceramic and SS plungers
- SS and PP pump heads
- Stroke length adjustment
- Single and three phase motors

- 0.18, 0.37 and 0.55 kW motors sizes
- 50 and 60 Hz motors

PUMP HEADS

PP   AISI316L

PLUNGERS

CERAMIC (SIALOX96)   AISI420

METERING PUMPS

PRIUS

Flow rate up to 170 l/h, working pressure up to 100 bar

PRIUS D HIGH PRESSURE & PRIUS D HIGH PRESSURE ATEX 2D/2G
Motor driven diaphragm metering pump

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

2D	2G

PUMP HEADS

AISI316L

METERING PUMPS

PRIUS

Flow rate up to 240 l/h, working pressure up to 10 bar

PRIUS D ATEX & PRIUS P ATEX 2D/2G-3D/3G
Motor driven diaphragm/plunger metering pump

- PTFE diaphragm / Ceramic or SS plunger
- Stroke length adjustment
- Three phase motors
- Aluminium enclosure
- Stainless steel liquid ends (AISI 316)

2D	2G	3D	3G

PUMP HEADS (PRIUS D ATEX)	PUMP HEADS & PLUNGERS (PRIUS P ATEX)

PVDF	PP	AISI316L	PP	AISI316L	CERAMIC (SIALOX96)	AISI420

METERING PUMPS

Pumps Accessories
Reliable 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
(630-730).
Marine impeller, diameter 70mm.

MIXN/8

Slow speed mixer 65/200 RPM.
AISI shaft-PVC coated, different
lengths available
(630-730mm).
3-blade impeller, diameter 150mm.

MIXN/MAN

Manual mixer.
PVC shaft, different
lengths available
(450-650 and 770-1100 mm).
Impeller diameter 130 mm.

MIX « PISTON »

Manual mixer.
PVC shaft, different lengths
available (450 mm).

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Pumps Accessories

Reliable products

LASP

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

LINI R

1/2" injection lance for dosing sodium hypochlorite in hard water. Self cleaning. FKM B o-ring. PVDF or Stainless Steel 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 45°C - 25 bar

CWFA

Woltmann water pulse sender water meter, dry dial.

Max 60°C - 16 bar

CTFI

Cold water pulse sender water meter.

Max 30°C - 16 bar

CATFI - dry dial

CWFAT

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

Max 60°C - 16 bar

CTFIT

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

Max 30°C - 16 bar

CHLORINE DIOXIDE GENERATOR

LOTUS MINI

LOTUS MINI is an all-round solution for all your need for water disinfection. It is safe and solid and can also be controlled remotely via the web application ERMES through a 2G/3G modem or a lan adapter, while Modbus is available as option.

Its elegant cover preserves the cleanliness of the inner components and their integrity. Chlorine dioxide produced by LOTUS MINI can be proportional to the circulating water flow or based on a measured setpoint. There is no storage of chlorine dioxide therefore there is no chlorine dioxide gas or concentrated solutions outside of the process application.

Max capacity: from 8 to 20 g/h

FEATURES

> Instantaneous ClO_2 production
> ClO2 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 internal modem (option)
> MODBUS module (option)
> WIFI module (option)
> Service due date
> mA output
> ClO_2 concentration: 2 g/l
> Flow control input (flow alarms)
> Tank level control (level alarms)
> HCl (red), NaClO2 (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: 0-45°C (32-110°F)

ADVANTAGES

Reaction at controlled pressure
Max capacity: from 8 to 20 g/h

> High degree of stability of the chlorine dioxide solution
> No ClO_2 loss due to closed reaction chamber
> Diluted chemicals

Also available 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.

CHLORINE DIOXIDE GENERATOR

LOTUS AIR

LOTUS AIR is a pressure-less chlorine dioxide generator useful for those applications in which several injection points are required. Chlorine Dioxide is produced from diluted base chemicals: acid-chlorite process by Hydrochloric Acid (HCl 9%) and Sodium Chlorite (NaClO2 7,5%).

Chlorine dioxide produced by LOTUS AIR is stocked into a tank and then dosed proportionally to the request. It can also be controlled remotely via the web application ERMES through a 2G/3G modem or a lan adapter, while Modbus is available as option. Its elegant cover preserves the cleanliness of the inner components and their integrity.

Max capacity: from 10 to 60 g/h

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
- USB data log (option)
- Ethernet module (option)
- GSM internal modem (option)
- MODBUS module (option)
- WIFI module (option)
- ClO_2 concentration in water measurement and control
- mA output
- ClO_2 concentration: 2 g/l
- HCl (red), $NaClO_2$ (blue) and ClO_2 (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: 0-45°C (32-110°F)

ADVANTAGES

Reaction at ambient pressure

Max capacity: 10 g/h - 30 g/h - 60 g/h

- Multi-point injection
- No emission
- Diluted chemicals

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

GAS SENSOR OPTION

LOTUS AIR with gas sensor detection.

CHLORINE DIOXIDE GENERATOR

LOTUS MAXI

LOTUS MAXI is one of the largest product among EMEC Chlorine Dioxide generators and 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.

It can also be controlled remotely via the web application ERMES through a 2G/3G modem or a lan adapter, while Modbus is available as option.

Max capacity: from 80 to 1000 g/h

FEATURES

> Instantaneous ClO_2 production
> ClO2 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 internal modem (option)
> MODBUS module (option)
> WIFI module (option)
> Service due date
> mA output
> ClO_2 concentration: 2 g/l
> Flow control input (flow alarms)
> Tank level control (level alarms)
> HCl (red) and $NaClO_2$ (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: 0-45°C (32-113°F)

ADVANTAGES

Reaction at controlled pressure

Max capacity: from 80 to 1000 g/h

> 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.

CHLORINE DIOXIDE GENERATOR

LOTUS EASY

LOTUS EASY is the best solution if you want a simple but professional way to produce chlorine dioxide, thanks to an integrated All-in-One Controller eqipped 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.

There is no storage of chlorine dioxide therefore there is no chlorine dioxide gas or concentrated solutions outside of the process application.

LOTUS EASY is designed so that the reaction to produce chlorine dioxide takes place in a reaction chamber. Multi function valves on injection points ensure security of the reaction chamber.

Max capacity: from 8 to 80 g/h

FEATURES

> 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
> ClO_2 concentration: 2 g/l
> Level alarms
> 2 flow sensors
> MFKT/V multifunction valve as pressure, safety, anti-syphon and bleed
> Static mixer
> PVC reaction chamber
> Working temperature: 0-45°C (32-113°F)
> 600 x 800 mm panel mounting
> By-pass diametre: DN 40

ADVANTAGES

Reaction at ambient pressure

Max capacity: from 8 to 80 g/h

> High degree of stability of the chlorine dioxide solution
> No ClO_2 loss due to closed reaction chamber
> Diluted chemicals

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CHLORINE DIOXIDE GENERATOR

LOTUS ULTRA

LOTUS ULTRA is the largest product among EMEC Chlorine Dioxide generators and is used in all those cases in which there is need of a big production, such as large water treatment plants.

Chlorine Dioxide is produced from concentrated base chemicals: acidchlorite process by Hydrochloric Acid (HCl 33%) and Sodium Chlorite (NaClO$_2$ 27%).

Chlorine dioxide produced by LOTUS ULTRA is set to be proportional to the circulating water flow or based on a setpoint, it is then dosed into the water flow.

Max capacity: 2000 g/h

FEATURES

> 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)
> Service due date
> LOTUS control instrument
> HCl (red) and NaClO2 (blue) metering pumps
> 2 pumps for dilution water (grey)
> 4 SEFL flow sensors as security
> MFKT/V multifunction valve as pressure, safety, anti-syphon and bleed valve
> PVDF reaction chamber
> IP65 protection (NEMA4x) of LOTUS control instrument
> ENCODER wheel control
> Working temperature: 0-45°C (32-110°F)
> mA output
> ClO$_2$ probe reading
> Temperature probe reading (probe and accessories not included)

ADVANTAGES

Reaction at controlled pressure

Max capacity:: 2000 g/h

> Large-scale applications
> High degree of stability of the chlorine dioxide solution
> No ClO$_2$ loss due to closed reaction chamber
> Diluted chemicals

Also available equipped with a ClO$_2$ probe (SCL2 or SCL17) or a Redox probe (ERH), a probe holder and a filter.

GAS SENSOR OPTION

LOTUS ULTRA with gas sensor detection.

CENTURIO PRO / TOWER / POOL

10 channels

Water treatment

UP TO 10 CHANNELS (6 ANALOG)

CONDUCTIVITY - CONTACT OR INDUCTIVE	
pH	ORP
CHLORINE	TRACERS
mA INPUT	TURBIDITY
POTENTIOSTATIC	DISSOLVED OXYGEN
LEVEL LASER SENSOR	CORROSION

ONLINE REMOTE CONTROL

REALTIME PARAMETERS READING AND REGULATION
SETTINGS EXPORT / IMPORT
REMOTE SOFTWARE UPDATE

CENTURIO TOWER is the control instrument in cooling tower water treatment, with the ease and safety you need and with the stylish box designed by Giugiaro Design. CENTURIO is equipped with a Linux operating system, a high-performance ARM A5 microprocessor, a large, touchscreen, color display, in order to give you total and simultaneous control, also with real-time graphs, over 5 channels and the most important parameters for cooling tower water treatment, such as conductivity, chlorine, pH or ORP.
CENTURIO TOWER can connect to the internet and then be safely configured and managed with ERMES wherever you are by using any device and any browser. It is also equipped with MODBUS serial communication to be connected to other devices on RS485 networks and TCP/IP MODBUS.

HARDWARE
- Large 4.3" LCD Full Color
- Touchscreen Display
- High-performance ARM A5 microprocessor
- Large capacity storage for logging

SOFTWARE
- ERMES Remote Control
- Multi-language
- Cross platform software
- Communication WIFI - 3G - ETHERNET - MODBUS
- High performance with LINUX operating system

PARAMETERS
- CENTURIO TOWER with conductivity measurement
- 5 Modular channels to combine
- MODBUS TCP/IP and RTU module included
- ETHERNET module included
- USB module included
- WIFI or 3G module as option
- 0-20 mA input module as option to control different parameters remotely

DESIGN
- Box design by GIUGIARO DESIGN
- New "EASY-MOUNT" system
- Designed for mounting on pipes
- Opening with side zipper and captive screws

INSTRUMENTS

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 / PLUS 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 SBR (LDPHCL), Flocculant pump control, mA output (option).

Options:
- USB for data log recording
- Current Output (0/4 - 20 mA)
- Ethernet
- 2G/3G modem
- MODBUS protocol
- WIFI module

PLUS Features:
- 5 relais (2 setpoint; alarm; probe cleaning; circulation)
- Probe cleaning
- PID
- Feed forward

LDPHRH - LDPHRH PLUS   pH (0-14) - ORP (0-1000mV) - °C (0-200)
LDPHCL* - LDPHCL PLUS*   pH (0-14) - Chlorine (0-10 mg/l Cl2) - °C (0-200)
LDPHBR - LDPHBR PLUS   pH (0-14) - Bromine (0-10 mg/l Br) - °C (0-200)
LDPHO2 - LDPHO2 PLUS   pH (0-14) - O2 (0-200 mg/l H2O2) - °C (0-200)
LDPHCD - LDPHCD PLUS   pH (0-14) - Conductivity (depending on the probe) - °C (0-200)
LDPHCDIND - LDPHCDIND PLUS   pH (0-14) - Inductive conductivity (0-3 mS|0-30mS|0-300mS) - °C (0-99,9)
LDPHTORBH - LDPHTORBH PLUS   pH (0-14) - Turbidity (0-9999 NTU) - °C (0-99,9)

LD - Custom configurations on client request.

* When ordering, please specify the parameters and the chlorine probe model.

INSTRUMENTS

LDS / LDS PLUS 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
- 2G/3G modem
- MODBUS protocol
- WIFI module

PLUS Features:
- 5 relais (2 setpoint; alarm; probe cleaning; circulation)
- Probe cleaning
- PID
- Feed forward

LDSPH - LDSPH PLUS   pH (0-14) - °C (0-200)
LDSRH - LDSRH PLUS   ORP (0-1000mV) - °C (0-200)
LDSCL - LDSCL PLUS   Chlorine (0-10 mg/l Cl_2) - °C (0-200)
LDSCD - LDSCD PLUS   Conductivity (depending on the probe) - °C (0-200)
LDSCDIND - LDSCDIND PLUS   Inductive conductivity (0-3 mS|0-30mS|0-300mS) - °C (0-99,9)
LDSETORB2 - LDSETORB2 PLUS   Turbidity (0-4000 NTU) - °C (0-40)
LDSTRC - LDSTRC PLUS   Markers (0-9999 PPM) - °C (0-200)
LDSFR - LDSFR PLUS   Fluorine (1E-5-1M) - Concentration (0-300 ppm) - °C (0-60)

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
- 2G/3G modem
- WIFI module
- MODBUS protocol

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 MODEL
MTOWER CD : controller for conductivity

CONTROLLERS

Panel instruments
1 channel with temperature

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

JA PRO
96x96 RACK-MOUNT SINGLE READING

JA PRO PH   pH
JA PRO RH   ORP
JA PRO CL   Chlorine (Total - Free) - Chlorine Dioxide -
            Hydrogen - Peroxyde - Ozone - Bromine -
            Peracetic Acid
JA PRO CD   Conductivity
JA PRO CD IND   Inductive conductivity

JA PRO control instruments are a series of rack-mount (96x96) single reading systems with temperature reading, mA module and native modbus. 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 (uS/S - Ohm - TDS / PPM) with automatic range and probe / product selection (H_3PO_4 - H_2SO_4 - HNO_3 - HCl - $NaOH$ - $NaCl$).

Fearures
- 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
- mA module
- MODBUS serial communication

Options
- Avalible low voltage 9-18VDC or 18-36VDC power supply.
- Available IP54 protection cover.

Panel instruments

1 channel with temperature

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

J DIGITAL
96x48 RACK-MOUNT 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 CLO2   Chlorine dioxide
J DIGITAL TEMP   Temperature

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-MOUNT (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 CLO2   Chlorine dioxide
DIN DIGITAL TEMP   Temperature

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.

INSTRUMENTS

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, 3G or WIFI 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 3G Configuration you can receive SMS report on your mobile. All EMEC latest controllers are ERMES ready:

- CENTURIO TOWER
- MAX5
- LD MULTICHANNEL
- LD WITH ENCODER (wheel)
- MTOWER
- WD
- JA

AVAILABLE CONFIGURATIONS FOR CONTROL INSTRUMENTS

BASIC
> RS485 output to link other EMEC instruments

ETHERNET
> RS485 output to link other EMEC instruments
> LAN connection to web app ERMES
> Alarm messages via email

3G
> RS485 output to link other EMEC instruments
> 3G connection to web app ERMES
> Alarm messages via email
> Alarm messages via SMS

WIFI
> RS485 output to link other EMEC instruments
> WIFI connection to web app ERMES
> Alarm messages via email

USB
> RS485 output to link other EMEC instruments
> USB connection for downloading of log files to be viewed on web app ERMES

MODBUS
> Connection to other PLC instruments via RS485 or TCP/IP for reading and modifying parameters

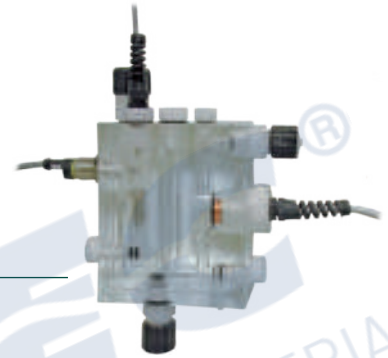| CONFIGURATION	FEATURES	CONNECTION TYPE	REQUIREMENTS	FUNCTIONS
BASIC	/	Local control	/	- RS485 link to EMEC instruments
ETHERNET	LAN	Remote control via ERMES web app (www.ermes-server.com)	LAN (RJ-45)	- RS485 link to EMEC instruments - ERMES Web App (PC, smartphone, tablet) - Email Alarm messages
3G	MOBILE	Remote control via ERMES web app (www.ermes-server.com)	Network Coverage	- RS485 link to EMEC instruments - ERMES Web App (PC, smartphone, tablet) - Email / SMS Alarm messages
WIFI	WIFI	Remote control via ERMES web app (www.ermes-server.com)	Network Coverage	- RS485 link to EMEC instruments - ERMES Web App (PC, smartphone, tablet) - Email Alarm messages
ADVANCED USB	USB	Download data log from controller to USB drive	/	- RS485 link to EMEC instruments - Data Log recording on USB drive
MODBUS	PLC	PLC plant management	/	- PLC connection output for reading and modifying parameters via RS485 or TCP/IP

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.

MEASUREMENT SYSTEMS

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 70° C
Working pressure max 7 bar

ERH - ORP probes

Working temperature max 70° C
Working pressure max 7 bar

EOLUM - Dissolved Oxygen probes

Working temperature max 50° C
Working pressure max 10 bar

ETORB2 - Turbidity probes

Working temperature max 40° C
Working pressure max 2 bar

ETRC - Inline Fluorometer

Working temperature max 50° C
Working pressure max 7 bar

www.blautec.com   (+34) 93 805 24 47 | industria@blautec.com

MEASUREMENT SYSTEMS

PROBES

EFL - Fluoride ione probes

Working temperature max 70° C
Working pressure max 7 bar

ECDHL - Conductivity, Platinum electrodes

Working temperature max 70° C
Working pressure max 7 bar

ECDC - Conductivity, Graphite electrodes

Working temperature max 60° C
Working pressure max 7 bar

ECDI - Conductivity, Stainless Steel electrodes

Working temperature max 60° C
Working pressure max 7 bar

EICD - Conductivity Stainless Steel probes

Working temperature max 130° C
Working pressure max 15 bar

ECDIND PT - Inductive Conductivity probes

Measuring range up to 300,00 mS
Working temperature max 85° C
Working pressure max 8 bar
L 151.00 mm Ø 44.70 mm

ECDSIND PT - Inductive Conductivity probes

Measuring range up to 10,00 mS
Working temperature max 85° C
Working pressure max 8 bar
L 105.00 mm Ø 32.70 mm

PROBES ACCESSORIES

NPED

Off-line probe holders.
Working temperature 0°/50° C
Maximum pressure 5 bar

PEF

Off-line probe holders for closed amperometric cells.

PEL

In-line probe holders.

NFIL

Filters.
Maximum temperature 60° C
(30° C NFIL/CA)
Filtration degree 60 µ / 150 µ

PEC

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 8 bar
Maximum temperature 75° C

BUFFER SOLUTIONS

Buffer solutions for probe calibration.

CUSTOMIZED SOLUTIONS

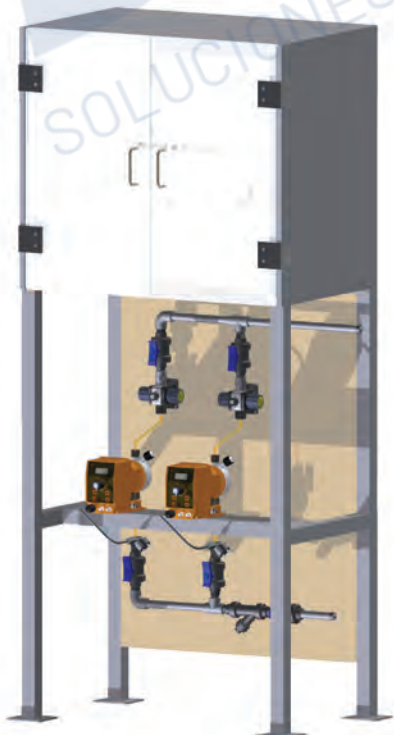# MIXING AND DOSING STATION / SKID

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.

CUSTOMIZED SOLUTIONS

POOLBRAVO

POOLBRAVO is a turnkey product available in several configurations to immediately and easily manage the main parameters concerning water treatment in swimming pools, in order to optimize the dosing and consumption of the needed chemicals.

its 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.

The LD multiple reading digital system inside POOLBRAVO gives you the complete control over the measuring 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.
A 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.

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.

POOL BRAVO
+ ACID PUMP
+ CHLORINE PUMP

POOL BRAVO
+ ACID PUMP
+ CHLORINE PUMP
+ ANTI-ALGAE PUMP

POOL BRAVO
+ ACID PUMP
+ CHLORINE PUMP
+ FLOCCULANT PUMP

ALL MODELS ARE AVAILABLE WITH ECL6 OPEN AMPEROMETRIC CELL OR WITH SCL3 CLOSED AMPEROMETRIC CELL

PROBES HOLDER COLORED LED LIGHT ALARM

CUSTOMIZED SOLUTIONS

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

CUSTOMIZED SOLUTIONS

DRINKING AND WASTE WATER

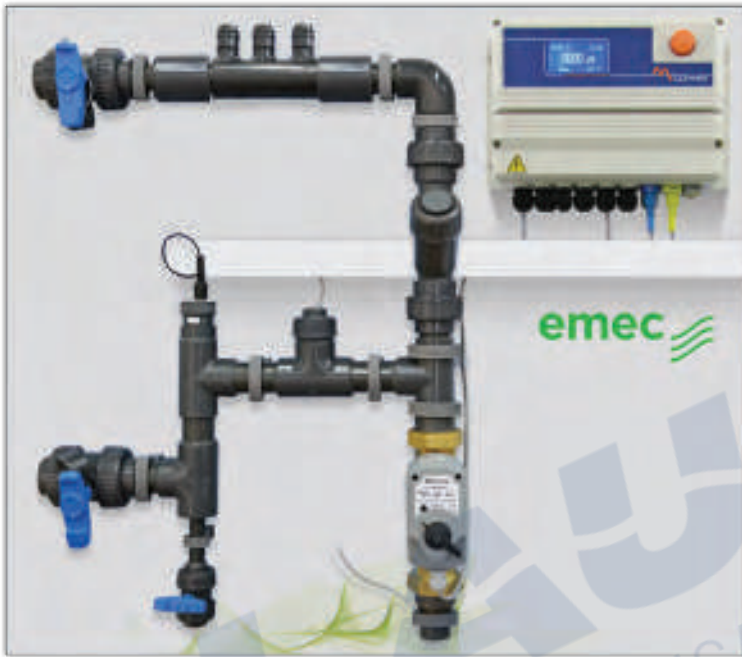Water treatment for a cleaner, safer, better tasting and better smelling water

| Chlorination system

| Pre-treatment and final disinfection of potable waters

| Disinfection with sodium hypochlorite or calcium hypochlorite

| Real time monitoring

| Remote Control

Sample panel

www.blautec.com

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CUSTOMIZED SOLUTIONS

COOLING TOWERS

Sample panel

Cooling towers & Industrial water treatment

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

emec

Sample panel

www.blautec.com

BLAUTEC ®

SOLUCIONES HIDRÁULICAS PARA LA INDUSTRIA