eSELECT M SERIES

THe eSelect M is a multi-function measuring instrument featuring one (M1), two (M2) or three (M3) measurement parameters suitable for measuring the pH, Rx (Redox), Free CHLORINE (Residual), Total CHLORINE and Conductivity.

The eSelect M range, along with high quality performances and advanced functions, offers several characteristics that make it versatile and easy to use.

Common Features:
- PH and Rx can be selected on the same model by simply programming and using the related probe;
- Free or Total Chlorine measure may be chosen on the basis of the type of sensor used and the relative measuring range: - ion-selective membrane sensors with measure ranges 0-2 Cl ppm; 0-20 Cl ppm; 0-20 Cl ppm (Total); - open type amperometric cell (model CLC) with measure range 0-10 Cl ppm
- Timed AUX outputs programming; Adjustable timer mode; switch-on time programming.
- Suitable for software EtaCloud connection; optional accessory: connectivity kit
- Available boxes: wall mounting (IP65)
- Backlighted graphic display (128x64)
- Start-up delay
- Alarm relay, NO or NC programmable from the user
- Automatic temperature compensation, (by PT100 probe o NTC) or manual

M1 CD Cool

"Instruments to measure and control the electric conductivity"
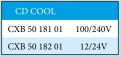
eSelect-M1 CD Cool is an electrical conductivity measurement and control instrument, specifically designed for cooling towers. The programming menu contains functions specifically designed for this application, while a wide graphic display and a user-friendly navigation menu make it a very simple product for the end users.

General Features

- Automatic monitoring of dosing pumps and solenoid valve by the conductivity measure or by the timer;
- Measure: electric conductivity and temperature (C°)
- Two 4-20mA output, programmable by the user
- 4 setpoint outputs, ON/OFF o PWM (Pulse Width Modulation) working mode;
- Adjustable Hysteresis on the setpoint value; delay time on relay activation
- MAX and MIN alarm on the value measure
- Overdosing Alarm (excessive dosing time)
- Timer built-in for start/stop control of the instrument
- Alarm relay
- Accurated dosing of the chemicals, inhibitor and two biocides;
- Four operative modes for inhibitor dosing;
- Biocides dosing cycles programmable by timer or clock;
- Flow sensor input
- Level probe input

CD COOL	
CXB 50 181 01	100/240V
CXB 50 182 01	12/24V

Discharge solenoid valve control, both with conductivity value and in timer mode.
Inhibitor dosing control, directly according to the water discharge (solenoid valve closing) or via internal timer, with the possibility of the proportional dosing via water-meter pulse-sender
Biocide dosing control, with the possibility of controlling two dosing pumps for the biocide with two dosing programs; timed programming with 99 programs for each biocidal product; possibility of blocking pumps during water discharge (solenoid valve open)

M1

"Measure and control instruments"

eSelect-M1 series is a family of controllers with one channel measure (+ temperature). The wide graphic display and the user-friendly navigation make it a very simple product for the end-user. Predisposed for Eatcloud connection, thanks to the **"Connection Kit"** (not included with the controller) the **eSelect-M1** can be managed in a remote way.

General Features

- Available measures: pH, Redox (mV), Free Chlorine (ppm), Total Chlorine (ppm),
- Conductivity and temperature (C°)
- Chlorine measure (ppm) by selective membrane sensor or amperometric cell Platinum-Copper
- 2 setpoint, ON/OFF mode or PWM (Pulse Width Modulation);
- Version pH or Redox, selectable from the user
- Timer mode, connected to auxiliary realy
- N.2 4-20mA outputs, programmable from the user
- Adjustable hystesys on setpoint value; delay time on activation relay
- Alarm MAX and MIN mode on measure value
- Overdosing Alarm (excessive dosing time)
- Timer built-in to manage start/stop of the controller
- Input for level sensor or flow sensor

M1 CD	
CXB 50 161 01	100/240V
CXB 50 162 01	12/24V
M1 pH (Rx)	
CXB 50 201 01	100/240V
CXB 50 202 01	12/24V
M1 Cl	
CXB 50 251 01	100/240V
CXB 50 252 01	12/24V

SR

(DIN 43700 - 96 x 96 x 126 mm)

- Suitable for software EtaCloud connection; optional accessory: connectivity kit.

SR CD	
CXR 50053 01	100/240V
CXR 50063 01	12/24V
SR pH (Rx)	
CXR 50051 01	100/240V
CXR 50061 01	12/24V
SR Cl	
CXR 50052 01	100/240V
CXR 50062 01	12/24V

M2

"Measure and control instruments"

eSelect-M2 series is a family of controllers using two measurement channels (+ temperature). The wide graphic display and the user-friendly navigation make it a very simple and intuitive product for end-users. Predisposed for Eatcloud connection, thanks to the **"Connection Kit"** (not included with the controller), the **eSelect-M2** can be managed remotely.

General Features

- Measures: pH, Redox (mV), Free Chlorine (ppm), Total Chlorine (ppm), Conductivity and temperature (C°)
- Version pH or Redox, selectable from the user
- Standard versions: pH(Rx)-pH(Rx); pH(Rx)-CL; pH(Rx)-CD
- Timer mode, connected to auxiliary realy
- N.2 4-20mA outputs, programmable from the user
- Chlorine measure (ppm) by selective membrane sensor or amperometric cell Platinum-Copper
- 2 setpoint for each measure, ON/OFF mode or PWM (Pulse Width Modulation);
- Adjustable hystesys on setpoint value; delay time on activation relay
- Alarm MAX and MIN mode on each measure
- Overdosing Alarm (excessive dosing time) for each measure
- Timer built-in to manage start/stop of the controller
- N.2 inputs for level sensor
- Flow sensor input

pH-Rx	
CXB 50 401 01	100/240V
CXB 50 402 01	12/24V
pH(Rx)-Cl	
CXB 50 351 01	100/240V
CXB 50 352 01	12/24V
pH(Rx)-CD	
CXB 50 301 01	100/240V
CXB 50 302 01	12/24V

M3

"Measure and control instruments"

eSelect-M3 series is a family of controllers with three channels measures (+ temperature). The wide graphic display and the user-friendly navigation make it a very simple product for the end-user. Predisposed for Eatcloud connection, thanks to the **"Connection Kit"** (not included with the controller) the **eSelect-M3** can be managed in a remote way.

General Features
- Measures: pH, Redox (mV), Free Chlorine (ppm) and temperature (C°)
- Standard version: pH – Rx – CL
- Timer mode, connected to auxiliary realy
- N.3 4-20mA outputs, programmable from the user
- Chlorine measure (ppm) by selective membrane sensor or amperometric cell Platinum-Copper
- 2 setpoint for each measure, ON/OFF mode or PWM(Pulse Width Modulation);
- Adjustable hystesys on setpoint value; delay time on activation relay
- Alarm MAX and MIN mode on each measure
- Overdosing Alarm (excessive dosing time) for each measure
- Timer built-in to manage start/stop of the controller
- N.3 inputs for level sensor
- Flow sensor input

pH-Rx-CL	
CXB 50 451 01	100/240V
CXB 50 452 01	12/24V

Technical Features

Models	1 measure channels		2 measure channels		3 measure channels
Functions	pH or Redox (programmable from the user), Chlorine (ppm), Conductivity. Temperature				
Measure range	pH 0…14,00	Redox (mV) -1000…+1400	Chlorine (ppm) 0…2 / 0…10 / 0…200	Temperature (C°) 0…100	Conductivity 0…20mS (*)
Display	Graphic backlighted 128x64				
User Interface	Keyboard 4 keys				
Relay	5 A - 230 V, free contact				
Hysteresis	Programmable on the setpoint value				
Delay time	Programmable with setpoint value to close or open the relay contact				
Output	n.2 4-20 mA, signals programmable from the user 500 ohm maximum load impedence, with galvanic separation				
Auxiliary output	Relay connected with timer function				
Power supply	100,,,230 V – 50/60 Hz – 6W				
RS485/Ethernet	Modbus protocol with Etacloud software, for the remote control via PC, smartphone or tablet (NO FOR CD COOL)				
Box	in ABS, protection degree IP65				

ETA CLOUD

The **EtaCloud** software supports remote control of all the operating and programming parameters of the eSelect-M. The user, via smartphone, tablet or PC, can perform all monitoring and control operations from the device connected to the Internet, exactly as if he is facing the controller. The software sends - via email - alarms and status changes to the operator, thus enabling remote technical service.

The connection with **EtaCloud** takes place thanks to the **Connectivity Kit** (not included with the instrument), which consists of an RS485/USB cable, an external module and a 5V power supply.

Overall Dimensions

240 mm
160 mm
90

Connectivity kit

Etacloud connection is possible through the connectivity kit (to be purchased separately).
The kit is made up of an external black module, RS485/USB cable (to be connected to the controller) and a power supply. LAN cable is required to be connected to the router or extender.

WiFi

KST 00001 01

(standard)

CE

eSelect M TOUCH "Measure and control Instruments"

eSelect-M TOUCH series is a family of controllers with four channels measures (+ temperature). The wide 7" touch display and the user-friendly navigation make it a very simple product for the end-user. Predisposed for Eatcloud connection, thanks to the **"Connection Kit"** (not included with the controller) the eSelect-M TOUCH can be managed remotely.

General Features

- Measures: pH, Redox (mV), Free Chlorine (ppm) Total
- Chlorine (ppm) and temperature (C°)
- Standard version: pH – Rx – CL- CL tot.
- N.1 4-20mA outputs, programmable from the user, for each measure
- Chlorine measure (ppm) by selective membrane sensor or amperometric cell Platinum-Copper
- 1 setpoint for each measure, ON/OFF mode or PWM (Pulse Width Modulation); (2 set points only for the first measure)
- Adjustable hystesys on setpoint value; delay time on activation relay
- Alarm MAX and MIN mode on each measure
- Overdosing Alarm (excessive dosing time) for each measure
- Alarm relay, NO
- LCD Touch Display (800x480 pixel)
- Timer built-in to manage start/stop of the controller
- Start-up delay
- N.1 inputs for level probe for each measure
- Flow sensor input
- 3 Time-programmable AUX outputs
- Possibility to enter Administrator Password

NEW

CE (standard)

Technical Features

Models	3 measure channels			4 measure channels
Functions	pH, Redox (mV), Chlorine (ppm), selectable from the user			
Measure range	pH 0…14,00	Redox (mV) -1000…+1400	Chlorine (ppm) - PPM 0…2 / 0…5 / 0…10 / 0…20 / 0…200 / 0…2000	Temperature (C°) 0…100
Display	7" LCD Touch Display 800x480 Pixel			
User Interface	Touch Screen			
Relay	5 A - 230 V, free contact			
Hysteresis	Programmable on the setpoint value			
Delay time	Programmable with setpoint value to close or open the relay contact			
Output	4-20 mA signals programmable from the user 500 ohm maximum load impedence, with galvanic separation			
Auxiliary output	Relay connected with timer function			
Power supply	100,,,230 V – 50/60 Hz – 6W			
RS485/Ethernet	Modbus protocol with Etacloud software, for the remote control via PC, smartphone or tablet			
Box	120x200x90,5 in ABS, protection degree IP65			

ETA CLOUD

The **EtaCloud** software supports remote control of all the operating and programming parameters of the eSelect-M. The user, via smartphone, tablet or PC, can perform all monitoring and control operations from the device connected to the Internet, exactly as if he is facing the controller. The software sends - via email - alarms and status changes to the operator, thus enabling remote technical service.

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Overall Dimensions

Connectivity kit

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The kit is made up of an external black module, RS485/USB cable (to be connected to the controller) and a power supply. LAN cable is required to be connected to the router or extender.

WiFi

KST 00001 01