

Metering Dosing Pumps & Control Equipments



Metering Dosing Pumps

MS series

OBL MS series is manufactured to the highest quality standard to be used extensively in a wide range of demanding manufacturing, industrial and process applications where reliability, accuracy and long term performances are essential.

The product can be configured to meet a large variety of applications and needs: constant flow rate, proportional to an external pulse/4-20 mA signals, built-in controllers for pH, conductivity, redox and chlorine.



MS.e

Metering dosing pumps

Constant flow rate regulation.
PVDF pump head with FPM seals



- LCD 2.1/2 digit display
- Flow rate digital adjustment 0-100% by keys
- PVDF pump head as standard
- Power on led
- Led Alarm
- Solenoid pulse Led
- Chemical dosing alarm level on demand
- ON/OFF switch
- Start/Stop key
- Polypropylene Plastic box with 30% fiber glass
- IP65 protection degree

SELECTION GUIDE

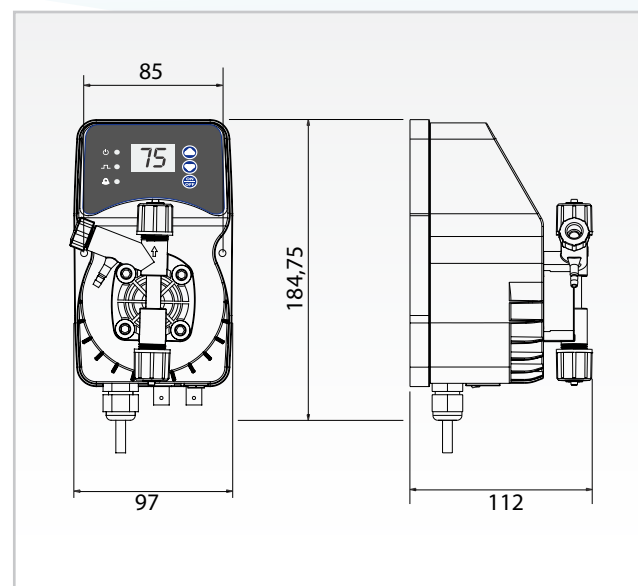
MODEL	FLOW RATE MAX (l/h)	PRESSURE MAX (bar)	FREQUENCY MAX (imp/min)	ML/PULSE	MAX SUCTION HIGH (m)	STANDARD POWER SUPPLY (*)	WEIGHT (kg)
MS.E 01-15	1	15	120	0,14	2.0	230 V-50/60 Hz	1,4
MS.E 02-10	2	10	120	0,28	2.0	230 V-50/60 Hz	1,4
MS.E 05-05	5	5	120	0,69	2.0	230 V-50/60 Hz	1,4

(*) For other power supply consult factory.

MATERIALS OF CONSTRUCTION

PARTS	MATERIALS
Pump head	PVDF (on request: Polypropylene)
Diaphragm	PTFE
Connections	PVDF
Foot filter	Polypropylene
Injection valve	Polypropylene
Suction tube	PVC crystal 4x6 mm.
Delivery tube	Polyethylene 4x6 mm.
Standard valves	Ceramic ball
Seals	FPM (on request: EPDM)
On request	Level connection (BNC)
Max current	1A

OVERALL DIMENSIONS



MS.k

Metering dosing pumps

Constant flow rate regulation.
PVDF pump head with FPM seals



- LCD 2.1/2 digit display
- Flow rate digital adjustment 0-100% by keys
- PVDF pump head as standard
- Power on led
- Led Alarm
- Solenoid pulse Led
- Chemical dosing alarm level as standard
- Start/Stop key
- Plastic box IP65 protection degree
- Percentage by UP/DOWN arrow keys
- Start/pause dosing

SELECTION GUIDE

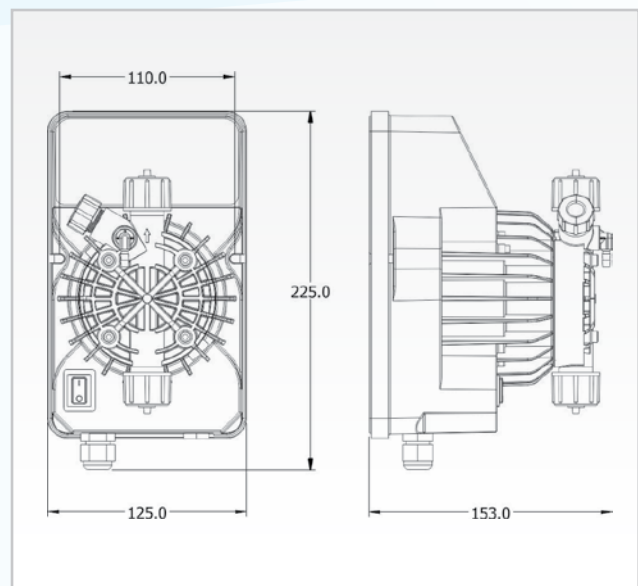
MODEL	FLOW RATE MAX (l/h)	PRESSURE MAX (bar)	FREQUENCY MAX (imp/min)	ML/PULSE	MAX SUCTION HIGH (m)	STANDARD POWER SUPPLY (*)	WEIGHT (kg)
MSK 01-15	1	15	120	0,14	2.0	230 V-50/60 Hz	2,3
MSK 02-10	2	10	120	0,28	2.0	230 V-50/60 Hz	2,3
MSK 05-07	5	7	120	0,69	2.0	230 V-50/60 Hz	2,3
MSK 10-10	10	10	180	0,93	2.0	230 V-50/60 Hz	2,3
MSK 20-03	20	3	200	1,67	2.0	230 V-50/60 Hz	2,3
MSK 50-01	50	1	220	3,97	2.0	230 V-50/60 Hz	2,3

(*) For other power supply consult factory.

MATERIALS OF CONSTRUCTION

PARTS	MATERIALS
Pump head	PVDF
Diaphragm	PTFE
Connections	PVDF
Foot filter	Polypropylene
Injection valve	Polypropylene
Suction tube	PVC crystal 4x6 mm. (8x12 mm. - MS.K 50-01)
Delivery tube	Polyethylene 4x6 mm. (8x12 mm. - MS.K 50-01)
Standard valves	Ceramic ball
Seals	FPM (on request: EPDM)
On request	Level connection
Max current	1A

OVERALL DIMENSIONS



MS.plus

Metering dosing pumps

Proportional dosing to an external facing pulses from a water meter or to an industry standard 4-20 mA control signal.

PVDF pump head with FPM seals



- Backlighted graphic display
- Proportional to an internal pacing pulses (water pulse sender): ppm mode and n:m mode
- Proportional to an external signal 4-20 or 20-4 mA, (both ranges selectable: mA and dosing frequency range)
- Constant flow rate mode
- Automatic regulation of frequency dosing (the pump automatically follows the flow variation)
- Automatic managing of excessive external pulses, self-regulation of dosing frequency
- Chemical dosing alarm levels as Standard
- IP65 protection degree
- PVDF pump head standard

SELECTION GUIDE

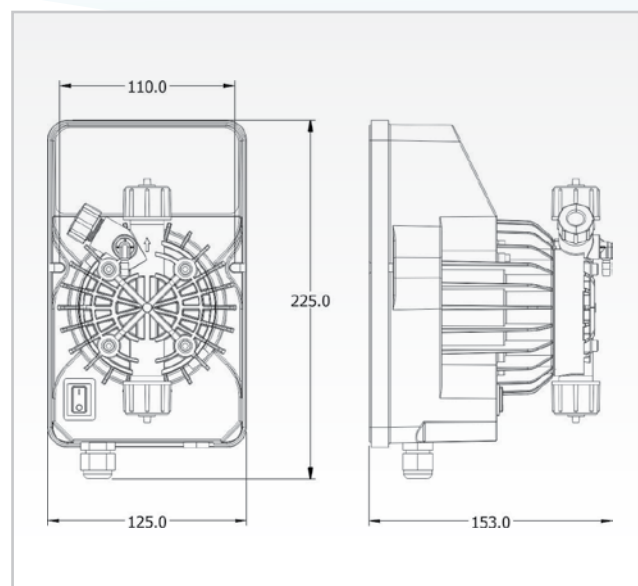
MODEL	FLOW RATE MAX (l/h)	PRESSURE MAX (bar)	FREQUENCY MAX (imp/min)	ML/PULSE	MAX SUCTION HIGH (m)	STANDARD POWER SUPPLY (*)	WEIGHT (kg)
MSplus 01-15	1	15	120	0,14	2.0	230 V-50/60 Hz	2,3
MSplus 02-10	2	10	120	0,28	2.0	230 V-50/60 Hz	2,3
MSplus 05-07	5	7	120	0,69	2.0	230 V-50/60 Hz	2,3
MSplus 10-10	10	10	180	0,93	2.0	230 V-50/60 Hz	2,3
MSplus 20-03	20	3	200	1,67	2.0	230 V-50/60 Hz	2,3
MSplus 50-01	50	1	220	3,79	2.0	230 V-50/60 Hz	2,3

(*) For other power supply consult factory.

MATERIALS OF CONSTRUCTION

PARTS	MATERIALS
Pump head	PVDF
Diaphragm	PTFE
Connections	PVDF
Foot filter	Polypropylene
Injection valve	Polypropylene
Suction tube	PVC crystal 4x6 mm. (8x12 mm. - MS.plus 50-01)
Delivery tube	Polyethylene 4x6 mm. (8x12 mm. - MS.plus 50-01)
Standard valves	Ceramic ball
Seals	FPM (on request: EPDM)
Max current	1A

OVERALL DIMENSIONS



MS.i

Metering dosing pumps

Built-in instruments for pH, Redox, free chlorine and conductivity control and regulation.
PVDF pump head with FPM seals.



- Backlighted graphic display
- Very easy to use: programming way easily programmable thanks to user-friendly intuitive and softteam
- Proportional dosing to the set-point value or On/Off mode
- Constant flow rate mode
- Level probe input
- Plastic box IP65 protection degree
- PVDF pump head standard
- Chemical dosing alarm level as standard
- Version pH/Redox(mV) selectable from the user
- Start/Stop key
- Measure ranges:
 - pH: 0-14,00 pH; BNC input from pH probe
 - Redox(mV): 0-1999 mV; BNC input from Redox(mV) probe
 - Free Chlorine: 0-10,00 ppm; Input probe SCLO series
 - Conductivity: 0-10.00 mS with probe SCD K1; other ranges available 1000mS, 100 mS, 10 mS, with probe SCD K5

SELECTION GUIDE

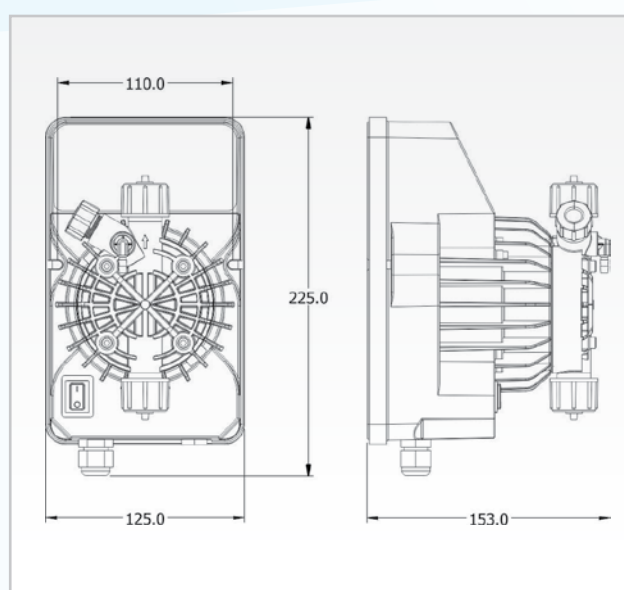
MODEL	FLOW RATE MAX (l/h)	PRESSURE MAX (bar)	FREQUENCY MAX (imp/min)	ML/PULSE	MAX SUCTION HIGH (m)	STANDARD POWER SUPPLY (*)	WEIGHT (kg)
MS.i 01-15	1	15	120	0,14	2.0	230 V-50/60 Hz	2,3
MS.i 02-10	2	10	120	0,28	2.0	230 V-50/60 Hz	2,3
MS.i 05-07	5	7	120	0,69	2.0	230 V-50/60 Hz	2,3
MS.i 10-10	10	10	180	0,93	2.0	230 V-50/60 Hz	2,3
MS.i 20-03	20	3	200	1,67	2.0	230 V-50/60 Hz	2,3
MS.i 50-01	50	1	220	3,79	2.0	230 V-50/60 Hz	2,3

(*) For other power supply consult factory - X4 - 1-MSi PA / 2 -MSi RX / 3 -MSi Conduction / 4 -MSi Free chlorine

MATERIALS OF CONSTRUCTION

PARTS	MATERIALS
Pump head	PVDF
Diaphragm	PTFE
Connections	PVDF
Foot filter	Polypropylene
Injection valve	Polypropylene
Suction tube	PVC crystal 4x6 mm. (8x12 mm. - MS.i 20/50)
Delivery tube	Polyethylene 4x6 mm. (8x12 mm. - MS.i 20/50)
Standard valves	Ceramic ball
Seals	FPM (on request: EPDM)
Max current	1A

MAX OVERALL DIMENSIONS



Installation kit



*4x6 PVC Crystal tube for suction
2 mt. length*



*4x6 polythylene tube for
delivery 2 mt. length*



Ball injection valve



Foot filter

Optional



*Base Mounting Bracket for MSE
series*



*Base Mounting Bracket for MS
series*



*SL level probe requires standard
pump modification*



Bracket for SL probe

Control Equipment

OBL offers a wide selection of high performance controllers. microprocessor based, digital, single, double or multi-parameter controllers.

C series can work with input for pH/redox electrode, amperometric cell, potentiostatic cell, conductivity probe, dissolved oxygen cell, turbidity cell, standardized input (indicator).

Temperature input , for connecting a PT100 sensor.

Every controller is easily programmable thanks to the user-friendly intuitive menu and the front keypad.



C05.s

Controller

Single measure

The C05 controllers represent the excellence of OBL technology. The instruments of the C05 family allow easy settings with 4 frontal keypad and 2 more contextual menu keys. The wide display always shows the real time measurement.

The C05 controllers come in single and double measurement. The double measurement C05 are always provided with pH priority functionality. All C05 controllers can be remotely operated via PC or GSM modem, they can also accommodate an SD card for data storage and downloading.



MODEL
C05 PH
C05 RX
C05 CLc
C05 CD
C05 OXY
C05 CLs
C05 TB
C05S PER.IDR. 0-2000ppm

- High performance
- Microprocessor SMD technology
- Backlit graphic display
- n.1 free contact alarm relay output
- Hysteresis, delay time and reverse mode selectable for each set-point

- Flow sensor input
- Level probe input
- Temperature visualization and compensation, manual or automatic (by optional probe)
- RS232 for remote control via PC (OBL software) or GSM modem connection
- Power supply: 100...230 Vac

- "Abs" wall mounting box with IP65 Protection degree
- Dimensions: 202x201x135 mm

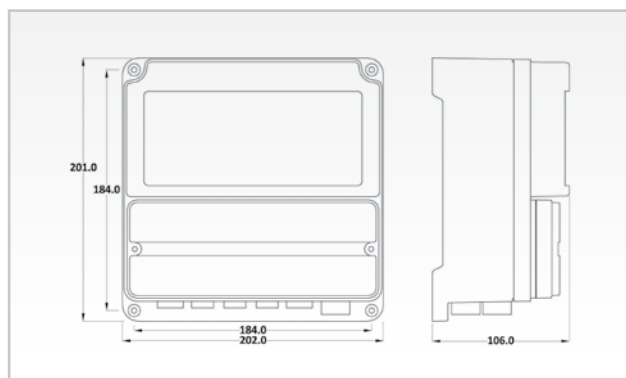
MEASURE RANGES

- **pH:** 0-14.00 pH (resolution 0.01 pH). Bnc input connection for pH electrode ($10^{12} \Omega$). ZERO and GAIN calibration. Manual temperature. Automatic temperature compensation by STE2N probe (opt.)
- **mV (Redox):** 0-2000 mV (resolution 1 mV). Bnc input for Redox electrode ($10^{12} \Omega$). ZERO calibration
- **Conductivity:** 0 - 1999 μ S. SCD K1 input probe. ZERO and GAIN calibration. Manual temperature. Automatic temperature compensation with STE2N probe (opt.)
- **Chlorine (Amperometric cell Pt-Cu):** 0 - 10.00 ppm (resolution 0.01 ppm). Terminal board input for SCLO1-SCLO2 probe. ZERO and GAIN calibration.
- **Turbidity:** 0- 20 NTU (0.1 NTU measure resolution). Input for STB-1 cell. ZERO and GAIN calibration.
- **Dissolved Oxygen:** 0- 20 mg/l O₂. Input for probe OXY-1 model. Calibration in air.
- **Chlorine (amperometric sensor):** 0- 10.00 or 0-20.00 ppm, depending from the sensor type. Resolution 0.01 ppm. Input sensor on terminal board. Calibration ZERO, GAIN.
- **Temperature:** 0 - 100.0 °C, resolution 0.1 °C. Input STE2N probe on terminal board. ZERO calibration.

C05 single measure (+ temperature)

- **Two set-points with free contact relay, selectable On-Off or proportional time/pause mode (PWM)**
- **One 4-20 mA output signal with selectable range and galvanic separation**
- **One frequency signal output with selectable range and galvanic separation**
- **One relay for alarm**

MAX OVERALL DIMENSIONS



C05.d

Controller

Double measure

The C05 controllers represent the excellence of OBL technology. The instruments of the C05 family allow easy settings with 4 frontal keypad and 2 more contextual menu keys. The wide display always shows the real time measurement.

The C05 controllers come in single and double measurement. The double measurement C05 are always provided with pH priority functionality. All C05 controllers can be remotely operated via PC or GSM modem, they can also accommodate an SD card for data storage and downloading.



MODEL
C05 PH-CLc
C05 PH-RX
C05 PH-CD (f.s. 20.000 μ S)
C05 PH-CD (f.s. 2.000 μ S)
C05 PH-CD (f.s. 200 μ S)
C05 PH-CLs

- High performance
- Microprocessor SMD technology
- Backlit graphic display
- n.1 free contact alarm relay output
- Hysteresis, delay time and reverse mode selectable for each set-point

- Flow sensor input
- Level probe input
- Temperature visualization and compensation, manual or automatic (by optional probe)
- RS232 for remote control via PC (OBL software) or GSM modem connection
- Power supply: 100...230 Vac

- "Abs" wall mounting box with IP65 Protection degree
- Dimensions: 202x201x135 mm

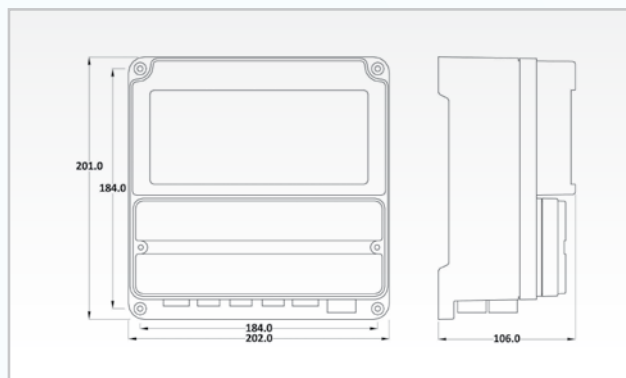
MEASURE RANGES

- **pH:** 0-14.00 pH (resolution 0.01 pH). Bnc input connection for pH electrode (10^{12} Ω). ZERO and GAIN calibration. Manual temperature. Automatic temperature compensation by STE2N probe (opt.)
- **mV (Redox):** 0-2000 mV (resolution 1 mV). Bnc input for Redox electrode (10^{12} Ω). ZERO calibration
- **Conductivity:** 0 - 1999 μ S. SCD K1 input probe. ZERO and GAIN calibration. Manual temperature. Automatic temperature compensation with STE2N probe (opt.)
- **Chlorine (Amperometric cell Pt-Cu):** 0 - 10.00 ppm (resolution 0.01 ppm). Terminal board input for SCLO1-SCLO2 probe. ZERO and GAIN calibration.
- **Turbidity:** 0- 20 NTU (0.1 NTU measure resolution). Input for STB-1 cell. ZERO and GAIN calibration.
- **Dissolved Oxygen:** 0- 20 mg/l O₂. Input for probe OXY-1 model. Calibration in air.
- **Chlorine (amperometric sensor):** 0- 10.00 or 0-20.00 ppm, depending from the sensor type. Resolution 0.01 ppm. Input sensor on terminal board. Calibration ZERO, GAIN.
- **Temperature:** 0 - 100.0 $^{\circ}$ C, resolution 0.1 $^{\circ}$ C. Input STE2N probe on terminal board. ZERO calibration.

C05 single measure (+ temperature)

- **Three set-points (2 for the pH and 1 for the other measure) with free contact relays, selectable On-Off mode or proportional time/pause (PWM)**
- **n.1 free contact relay output for probe maintenance**
- **Maximum dosing time alarm**
- **Two 4-20 mA output signal with selectable range and galvanic separation.**
- **2 frequency signal output with selectable range and galvanic separation.**

MAX OVERALL DIMENSIONS



C05.ct

Controller

Cooling tower

The C05 CT is specifically designed for Cooling Tower applications. The instrument controls the drain, the pump inhibitor and two pumps for Biocide. The controller integrates a clock-calendar which allows the Biocide dosing programming in daily, weekly or monthly way. Versions with conductivity measure or redox and conductivity measure are both available.



MODEL
C05CT CD
C05CT CD + RX

- High performance
- Microprocessor SMD technology
- Backlit graphic display
- n.1 free contact alarm relay output
- Hysteresis, delay time and reverse mode selectable for each set-point
- Flow sensor input
- Level probe input
- Temperature visualization and compensation, manual or automatic (by optional probe)
- RS232 for remote control via PC (OBL software) or GSM modem connection
- Power supply: 100...230 Vac
- "Abs" wall mounting box with IP65 Protection degree
- Dimensions: 202x184x106 mm

TECHNICAL CHARACTERISTICS

Measure Range	0...20.00 mS
Functions	Cooling Tower, control and regulation of conductivity
Resolution	0,01 mS
Display	Backlight graphic (128x64)
Controls	Keyboard (6 keys)
Temperature compensation	Manual or automatic temperature compensation (0-100 °C)
Relay output	5 free contact output relay 5 A max Out 1 Bleed control (bleed valve) Out 2 Feed control (inhibitor pump) Out 3 Biocide 1 relay (Biocide pump 1) Out 4* Biocide 2 relay (Biocide pump 2) Out 5 Alarm control
mA output	2 proportional 4-20mA (400 W max) Out 1 4-20mA Conductivity Out 2 4-20mA Temperature
Flow sensor	Independent control output relay via flow sensor switch
Bleed control	Conductivity, Timer, Manual
Feed control	Bleed Direct, % of Bleed, Timer, Water Meter, Manual
Biocide control	Independent (Biocide1 and Biocide2) 20 Line Programmer. Daily or 1-2-3-4 Weeks Timer-Clock system mode program.
Alarm control	Flow, Bleed and Feed Timeout
Datalogger	Optional SD memory card
Power supply	100-240 Vac
Box	In ABVV0 with IP65 protection degree
Dimensions	202 x 184 x 106 mm
Weight	1.150 gr l

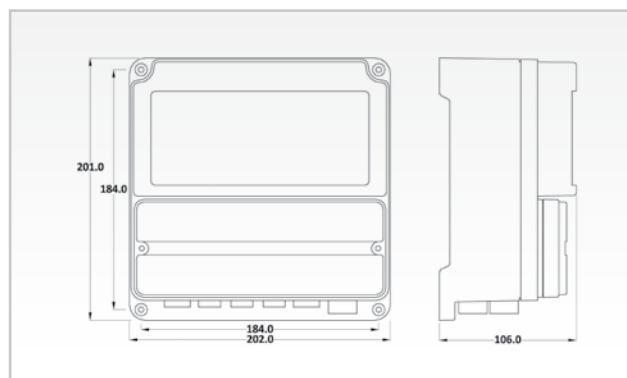
C05 CT CD (+ temperature)

- Nr. 5 free contact outputs for: Inhibitor, Biocide 1, Biocide 2, Bleed and Alarm
- Nr. two 4-20 mA proportional output signal one for the Conductivity and one for the temperature

C05 CT CD + RX (+ temperature)

- Nr. 5 free contacts outputs for: Inhibitor, Biocide 1, Biocide 2, Bleed and Alarm
- Nr. 1 free contact relay output for probe maintenance
- Nr. two 4-20 mA proportional output signal one for the Conductivity and one for Redox
- Flow sensor switch to open/close relays

MAX OVERALL DIMENSIONS



C10

Controller

C10 instruments series are high quality solution for applications that require simultaneous measurement of up to 4 parameters over the temperature. These controllers are designed for water treatment to meet technical requirements in accordance with local regulations. The C10 has inherited all the features of the C05 series, it can be controlled remotely via PC or GSM modem, it can store information on SD cards on request.



MODEL

C10 PH-MV-CL

C10 PH-MV-OXY

C10 PH-MV-CL-TB

- High performance
- Microprocessor SMD technology
- Backlit graphic display
- n.1 free contact alarm relay output
- Hysteresis, delay time and reverse mode selectable for each set-point
- Flow sensor input
- Level probe input
- Temperature visualization and compensation, manual or automatic (by optional probe)
- RS232 for remote control via PC (OBL software) or GSM modem connection
- Power supply: 100...230 Vac
- "Abs" wall mounting box with IP65 Protection degree
- Dimensions: 285x230x135mm
- 4 set-points with free contact relay, selectable On-Off or proportional time/pause mode (PWM).
- 1 4-20 mA output signal for each measure with selectable range and galvanic separation.
- 1 frequency output signal for each measure with selectable range and galvanic separation.
- n.1 free contact relay output for probe maintenance
- Over dosing time alarm

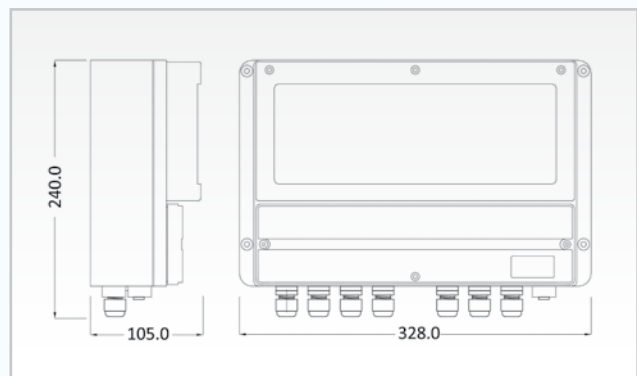
MEASURE RANGES

- **pH:** 0-14.00 pH (resolution 0.01 pH). Bnc input connection for pH electrode ($10^{12} \Omega$). ZERO and GAIN calibration. Manual temperature. Automatic temperature compensation by STE2N probe (opt.)
- **mV (Redox):** 0-2000 mV (resolution 1 mV). Bnc input for Redox electrode ($10^{12} \Omega$). ZERO calibration
- **Conductivity:** 0 - 1999 μS . SCD K1 input probe. ZERO and GAIN calibration. Manual temperature. Automatic temperature compensation with STE2N probe (opt.)
- **Chlorine (Amperometric cell Pt-Cu):** 0 - 10.00 ppm (resolution 0.01 ppm). Terminal board input for SCLO1-SCLO2 probe. ZERO and GAIN calibration.
- **Turbidity:** 0- 20 NTU (0.1 NTU measure resolution). Input for STB-1 cell. ZERO and GAIN calibration.
- **Dissolved Oxygen:** 0- 20 mg/l O₂. Input for probe OXY-1 model. Calibration in air.
- **Chlorine (amperometric sensor):** 0- 10.00 or 0-20.00 ppm, depending from the sensor type. Resolution 0.01 ppm. Input sensor on terminal board. Calibration ZERO, GAIN.
- **Temperature:** 0 - 100.0 °C, resolution 0.1 °C. Input STE2N probe on terminal board. ZERO calibration.

C10 (+ temperature)

- **Four set-points with free contact relays, selectable On-Off mode or proportional time/pause (PWM)**
- **Nr.1 free contact relay output for probe maintenance**
- **Maximum dosing time alarm**
- **Four 4-20 mA output signal with selectable range and galvanic separation.**
- **Two frequency signal output with selectable range and galvanic separation.**

MAX OVERALL DIMENSIONS

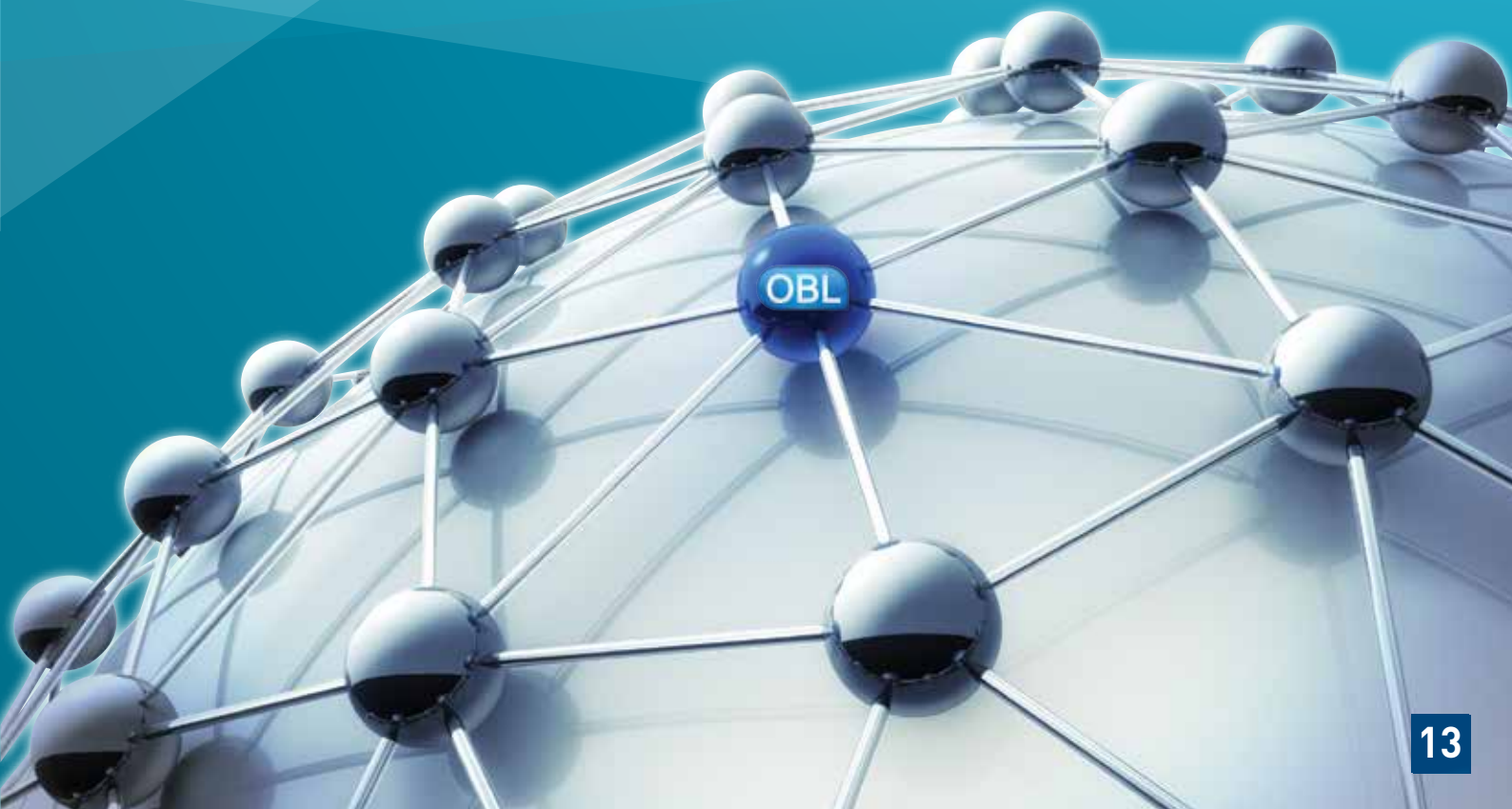


OBL Remote Communication

The C05 and C10 instruments can be remotely controlled via PC using any RS 232/485 connection or via GSM modem.

The software with graphic interface, allows the operator to set up the controller and regulate any settings as easily as being right in front of the instrument.

SD card data storage option is available for all controller ranges.



Probes & accessories

OBL offers a wide range of probes and accessories for dosing systems and instruments.

All the accessories you will find on our catalogue are designed to suit perfectly and maximize the performance of our products.

Tanks, mixers, lances are all available to be assembled ready to use mixing stations. Also filters, probe holders, valves and water meters are available.





pH	BODY MATERIAL	RANGE	CONNECTION	CABLE LENGTH	PRESSURE	TEMPERATURE
PHS.5	EPOXY	0-14 ph	BNC	5 mt.	MAX 6 bar	MAX 60
PHS.11	GLASS	0-14 ph	S7	-	MAX 6 bar	MAX 60
PHS.7	EPOXY	0-14 ph	S7	-	MAX 6 bar	MAX 60
PHS.hp	GLASS	0-14 ph	S7	-	MAX 16 bar	MAX 130

* Buffer solution for probe calibration available on list price.



REDOX	BODY MATERIAL	RANGE	CONNECTION	CABLE LENGTH	PRESSURE	TEMPERATURE
MVS.5	EPOXY	+ -2000mV	BNC	5 mt.	MAX 6 bar	MAX 60
MVS.11	GLASS	+ -1000mV	S7	-	MAX 6 bar	MAX 60
MVS.7	EPOXY	+ -2000mV	S7	-	MAX 6 bar	MAX 60
MVS.hp	GLASS	+ -1000mV	S7	-	MAX 16 bar	MAX 130

* Buffer solution for probe calibration available on list price.

Cables

BNC-S7 (pH/mV)	AKL-CL1	AKL-CL2	AKL-CL3
Cable length 1 mt.	Cable for membrane sensors (L=1mt.)	Cable for membrane sensors (L=2mt.)	Cable for membrane sensors (L=3mt.)
Cable length 5 mt.			
Cable length 10 mt.			



Chlorine

SCLO - 1

AMPEROMETRIC CELL.

Platinum/copper electrodes. Measure range: 0-10 mg/Cl₂. Cable 2 wire, l = 200 cm.

Max pressure 8 bar. Suggested flow 40 l/h.



SCLO - 11

AMPEROMETRIC CELL.

Platinum/copper electrodes. Measure range 0-10 mg/Cl₂. Cable 2 wire, l=200 cm.

Max pressure 8 bar. Flow regulator. Temperature sensor placement.

SP1 proximity sensor placement. Suggested flow 40 l/h.



SCLO - 2

AMPEROMETRIC CELL.

Platinum/copper electrodes. Measure range 0-10 mg/Cl₂. Cable 2 wire, l=200 cm.

Max pressure 8 bar. Flow regulation. Placement for pH and ORP electrodes, temperature sensor.

Prepared for SP1 proximity sensor.



Membrane sensors

TYPE	RANGE	DIMENSION (mm)	PRESSURE	FLOW RATE	ph RANGE	SUITABLE FOR
CL410s	0-10ppm	D=25/L=175	max 1 bar	max 30-40 lt/h	5.5-8.5	Inorganic chlorine
CL4.1 N	0-20ppm	D=25/L=175	max 1 bar	max 30-40 lt/h	4-11	Inorganic chlorine
CS2.3 N	0-20ppm	D=25/L=175	max 1 bar	max 30-40 lt/h	4-8	Inorganic chlorine
CC1	0-20ppm	D=25/L=175	max 1 bar	max 30-40 lt/h	4-11	Organic chlorine
CP2.1 N	0-20ppm	D=25/L=175	max 1 bar	max 30-40 lt/h	4-11	Total chlorine
CLD410S	0-10ppm	D=25/L=175	max 1 bar	max 45-135 lt/h	5.5-8.5	Chlorine dioxide



Conductivity

TYPE	BODY MATERIAL	CONSTANT	ELECTROD MATERIAL	CABLE LENGHT	CONNECTION	TEMP. COMP.	TEMPERATURE
SCDK1	PVC	K1	SS316	3 mt.	1/2" gas	NO	max 50
SCDTK1	PVC	K1	SS316	3 mt.	1/2" gas	YES	max 50
SCDLK1	PVC	K1	SS316	3 mt.	1/2" gas	NO	max 50
SCDK5	PVC	K5	SS316	3 mt.	1/2" gas	NO	max 50
SCDTK5	PVC	K5	SS316	3 mt.	1/2" gas	YES	max 50
SCDK1T	PTFE	K1	SS316	3 mt.	1/2" gas	NO	max 130
SCDTK1T	PTFE	K1	SS316	3 mt.	1/2" gas	YES	max 130
SCDK5T	PTFE	K5	SS316	3 mt.	1/2" gas	NO	max 130
SCDTK5T	PTFE	K5	SS316	3 mt.	1/2" gas	YES	max 130
SCD graphite	PTFE	K0,8	GRAPHITE	3 mt.	1/2" gas	NO	max 130
SCDT graphite	PTFE	K0,8	GRAPHITE	3 mt.	1/2" gas	YES	max 130
SCD3 K1	PVC+amplifier	K1	SS316	3 mt.	1/2" gas	NO	max 50
SCD3t K1	PTFE+amplifier	K1	SS316	3 mt.	1/2" gas	YES	max 130
SCD3 K5	PVC+amplifier	K5	SS316	3 mt.	1/2" gas	NO	max 50



Oxygen

TYPE	RANGE	DIMENSION (mm)	CABLE LENGHT	CONNECTION	FLOW RATE
OXY 1	0-20mg/l	D=12mm	5m	PG: 15,5 mm	0,03 m/s min



Temperature

TYPE	RANGE	BODY MATERIAL	ELECTROD MATERIAL	CABLE LENGHT	CONNECTION
STE 1	0-100	PTFE	SS316	3mt.	1/2" gas
STE 2	0-50	PVC/PTFE	SS316	3mt.	1/2" gas
STE 2N	0-50	PVC	SS316	3mt.	1/2" gas



Turbidity

TYPE	MEASURE RANGE	BODY	FLOW RATE
STB1	0-40 NTU	PVC	15 lt/h suggested
STB1	0-200 NTU	PVC	15 lt/h suggested
STB1	0-1000 NTU	PVC	15 lt/h suggested

* Buffer solution for probe calibration available on list price.



Proximity sensor

FOR SCLO2, SCLO -11 AND PROBE -HOLDER PS4

Probe holder

PS 100



PVC body, in line probe holder for pH/Redox electrode diam Ø 12mm. Connection 1/2" gas

PS300 Immersion probeholder



PVC body diam. Ø 12mm, length 70 cm.

PS 200



Plexyglass material, with housing for two pH/redox electrodes or conductivity probe.

PS 201



Plexyglass material, with housing for two pH/redox electrodes. Flow switch sold separately.

PS01



Plexyglass material, with housing for an amperometric sensor and one pH/redox electrode. Flow switch sold separately.

PS 4



Plexyglass material, with housing for an amperometric sensor and two pH/redox electrodes and temperature probe. Flow switch sold separately.



SM Tanks

MODEL	VOLUME (L)	DIAMETER (mm)	HEIGHT (mm)
SM 100	120	500	680
SM 300	325	710	890
SM 500	550	885	1000
SM 1000	1070	1100	1200

VM Safety Basins Polyethylene safety basins

MODEL	VOLUME (L)	DIAMETER (mm)	HEIGHT (mm)
VM 100	120	700	450
VM 300	325	900	660
VM 500	600	1050	1000
VM 1000	1000	1320	980

Suction Devices



Adjustable PVC Suction Device 70cm seals FPM foot filter and level
Adjustable PVC Suction Device 90cm seals FPM, foot filter and level

Mixer



MODEL	SHAFT (L)	PROPELLER (L)	MOTOR
OMV 6	630 mm	70 mm	0,18 kw 3phases (1phase on request)
OMV 7	730 mm	70 mm	0,18 kw 3phases (1phase on request)
OMV 8	830 mm	70 mm	0,18 kw 3phases (1phase on request)
OMV 9	930 mm	70 mm	0,18 kw 3phases (1phase on request)
OML 6	630 mm	200 mm	0,18 kw 3phases (1phase on request)
OML 7	730 mm	200 mm	0,18 kw 3phases (1phase on request)
OML 8	830 mm	200 mm	0,18 kw 3phases (1phase on request)
OML 9	930 mm	200 mm	0,18 kw 3phases (1phase on request)

BlackLine Series

Plunger Metering Pumps



RBA-RBB

MECHANISM : Spring Return

FLOW RATE

TYPE	RBA	RBB
L/h	300	300

- Black anodizing Aluminium casing;
- Simple and robust spring return plunger pump;
- Low cost, due to reduced number of components;
- Ideal for metering of mild or non-aggressive fluids.
- Single and multiple arrangement.

CHARACTERISTICS

RBA	L/h	7	15	20	38	55	90	150	200	300
	bar max	10	10	10	10	10	10	10	9	5
RBB	L/h	5,5	11	30	55	90	150	200	250	300
	bar max	40	40	30	23	12	10	7	5	4



RCC

MECHANISM : Spring Return

FLOW RATE

TYPE	RCC
L/h	300

- Black anodizing Aluminium casing;
- Simple and robust spring return plunger pump;
- Low cost, due to reduced number of components;
- Ideal for metering of mild or non-aggressive fluids;
- ATEX STD compliance (94/9/CE), group II category 2 (zone 1/21) and group II category 3 (zone 2/22).
- Single and multiple arrangement.

CHARACTERISTICS

RCC	L/h	4	11	20	30	55	90	120	160	200	250	300
	bar max	40	40	40	40	26	12	10	9	8	6	5
RCC TS	L/h	2	2,8	4	5	6	7	10	15	18	-	-
	bar max	100	100	100	100	100	100	100	80	60	-	-

HYDRAULIC DIAPHRAGM



XRN

MECHANISM : Spring Return

FLOW RATE

TYPE	XRN
L/h	105

- Black anodizing Aluminium casing;
- Technically advanced hydraulic diaphragm process pump;
- Combines the simplicity and economics of the mechanism with the advantages of the hydraulic diaphragm using an innovative mechanically actuated oil replenishing system;
- Built-in relief valve on the oil circuit to protect the pump against over pressure;
- API 675 - like performances with variable on site press. relief valve;
- Minimum maintenance required;
- ATEX STD compliance (94/9/CE), group II category 2 (zone 1/21) and group II category 3 (zone 2/22).

CHARACTERISTICS

XRN	L/h	0,6	1,5	2	4,5	6	10	13	20	26	32
	bar max	20	20	40	40	40	40	40	20	13	13
	L/h	42	50	66	105	-	-	-	-	-	-
	bar max	13	8	6	6	-	-	-	-	-	-

Mechanical Diaphragm Metering Pumps



MB-MC

MECHANISM : Spring Return

FLOW RATE

TYPE	MB	MC
L/h	155	420

- Black anodizing Aluminium casing;
- Simple and robust spring return mechanical diaphragm pump;
- Low cost, due to reduced number of components;
- Uses mechanically actuated diaphragm to combine the characteristics of a plunger pump (linear flow rate) with the sealing advantages of a diaphragm pump;
- Minimum maintenance required.
- Single and multiple arrangement.

CHARACTERISTICS

MB	L/h	11	16	23	31	50	75	101	120	155
	bar max	12	12	12	10	10	8	8	7	7
MC	L/h	100	132	197	260	320	420	-	-	-
	bar max	7	7	7	7	5	5	-	-	-



MD

MECHANISM : Spring Return

FLOW RATE

TYPE	MD
L/h	520

- Black anodizing Aluminium casing;
- Simple and robust spring return mechanical diaphragm pump;
- Uses mechanically actuated diaphragm to combine the characteristics of a plunger pump (linear flow rate) with the sealing advantages of a diaphragm pump;
- Minimum maintenance required.
- ATEX STD compliance (94/9/CE), group II category 3 (zone 2/22).
- Single and multiple arrangement.

CHARACTERISTICS

MD	L/h	1,5	7	11	31	75	101	132	260	320	420	520
	bar max	12	12	12	10	10	8	7	6	6	5	



ME

MECHANISM : Spring Return

FLOW RATE

TYPE	ME
L/h	1500

- Black anodizing Aluminium casing;
- Simple and robust spring return mechanical diaphragm pump;
- Uses mechanically actuated diaphragm to combine the characteristics of a plunger pump (linear flow rate) with the sealing advantages of a diaphragm pump;
- Minimum maintenance required.
- Single arrangement only.

CHARACTERISTICS

ME	L/h	750	1100	1250	1500
	bar max	7	7	6	5



METERING PUMPS

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