

# DOSEURO

# PROCESS CONTROLLERS

 **Chemitec**  
water  
control  
Instruments

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Doseuro are the UK and Ireland's exclusive distributor for Chemitec's famous range of chemical process controllers and instruments.

Chemitec produce the following product ranges:

- ACP 4001 – Multiparametric process controllers to determine levels of chlorine, pH, Redox and temperature.
- ACP 4004 – Level / flow meter.
- ACP 4022 – Conductivity and temperature analyser-controller.
- ACP 4037 – pH or Redox and temperature analyser-controller.
- ACP 4061 – Nephelometric turbidity measurement controller.
- ACP 4062 – Turbidity analyser-controller.
- ACP 4063P – Turbidity and sludge concentration analyser.
- ACP 4082 – Dissolved oxygen and temperature analyser-controller.
- ACP 4122 – Conductivity analyser-controller.
- ACP 4137 – pH and Redox meter.
- SK1040 GSM Alarm – GSM alarm logger.
- MAXX GmbH – Complete water sampling system (information page in Italian).

If you require any further information, please do not hesitate to contact us:

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We would welcome the opportunity to tender against your next dosing requirement.



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## Multi-Parameter Control Unit for contemporary determination of: Free Chlorine (Photometric system) , pH, Redox and Temperature

Graphic LCD back lighted Display for Simultaneous visualization of: Chlorine/pH/Redox and temperature measurement, analogue and digital output status. 4 digit keyboard for programming. Status of Photometric cycle

Internal Data Logger 4 Mbit flash memory ( 16.000 records). Tabular or graphic data display with maximum, minimum and average values.

PID regulation to be set for pH measurement

no.4 Analogue outputs. freely programmable within the measuring range.

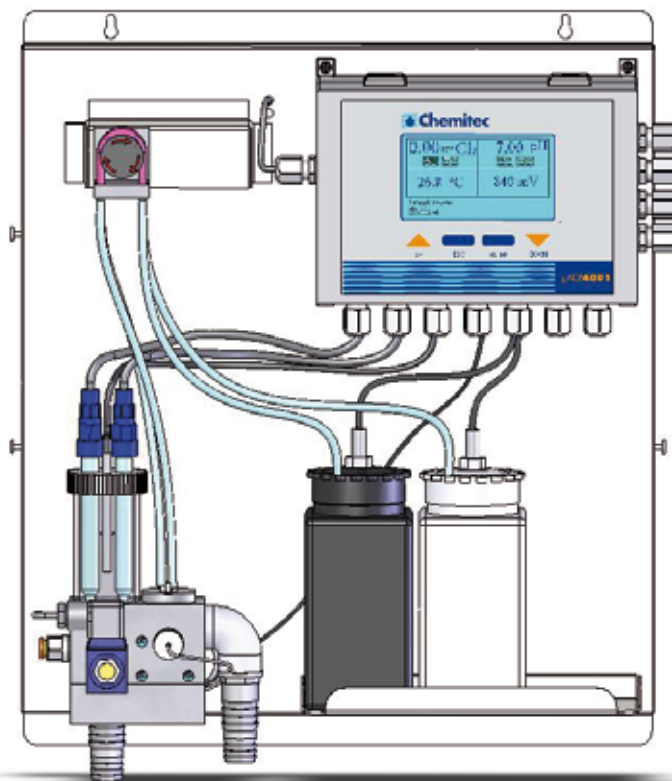
no. 5 + 1 digital output for threshold Rising or falling excitation with hysteresis and timing regulation

n.1 digital output for alarm to be set for: minimum/maximum value, delayed alarm, malfunctioning, sensor and lamp check, lack of water, lack of reactives

n.1 digital input to stop dosing system

RS485 Serial output MODBUS RTU protocol  
For remote set-up, real time data acquisition or download

Manual activation of the whole outputs, analogue and digital, for simulation.



# μACP 4001

## Multi-Parameter photometric Control Unit for contemporary determination of: Free Chlorine (Photometric system) , pH, Redox and Temperature

### Technical Features

#### Measurement range

Free chlorine: 00.00 ÷ 05.00ppm Cl<sub>2</sub> - Resolution: 0.01ppm - Accuracy: 1% f.s. (colorimetric method with DPD)  
pH: 00.00 ÷ 14.00 pH - Resolution: 0.01 pH - Accuracy: 1%f.s.  
Redox: ± 1500 mV - Resolution: 1 mV - Accuracy: 1%f.s.  
Temperature: 00.0 ÷ 50.0 °C - Resolution: 0.1°C - Accuracy: 1% f.s.

#### Graphic display

LCD STN 240x128 backlighted.  
Visualisation of: measurements (simultaneous of 4 values + trend line) ,  
Digital outputs condition, storage condition, malfunctions.  
Programming through keyboard with 4 bubble keys

#### Internal Data Logger

Flash 4 Mbit storage equal to 16000 recordings  
Recording interval: 00:00 ÷ 99:99 min  
Type: circular / filling  
Visualisation: table/chart

#### nr. 4 Analogue outputs

Quantity: ppm Cl<sub>2</sub> pH, Redox, Temperature.  
Typology: 0.00 / 4.00 ÷ 20.00 mA galvanically isolated  
Limit programming: lower / higher / Inversion  
Max load: 500 Ohm  
Output alarm according to NAMUR 2.4 mA (with range 4/20mA)

#### n.5 Relays Outputs of Set point

n.2 for Chlorine + n.2 for pH + n.1 for Redox measurement  
Programming of Hysteresis and operational time: 000 ÷ 999 sec.  
Or daily activation on a hour basis: with programming of switching on and off hour  
Relay max resistive load 5A at 230Vac

#### n.1 Alarm Relay Output

ON-OFF cumulative for: Min/Max, set point delay, defects (lack of sample water, reagents exhaustion, burnt projector, dirty cell)  
Delay time: 00:00 ÷ 59:99 mm:ss at minimum step of 15 seconds  
Threshold disabling: active  
Relay functioning: closed / open  
Relay max resistive load 5A at 230Vac

#### nr.1 Auxiliary Relay Outputs

Programmable as: Temperature measurement, timed activation for cell cleaning  
(programmable activation time and frequency)  
Relay max resistive load 5A at 230Vac

#### Digital Input

Contact feed at 24Vdc for dose disabling

#### Analogue Input

0/4 ÷ 20mA for auxiliary measurements

#### RS485 Serial Output

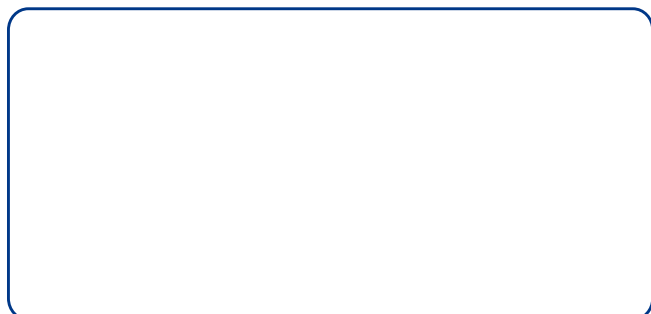
MODBUS RTU protocol with programmable velocity 1200 ÷ 38400 Baud Rate. for set-up, Real Time condition, or data download

#### Functioning conditions

Operational Temperature 0-50°C  
Storage and Transportation -25-65°C  
Humidity 10-95% not condensed  
Power Supply/Electric Protection  
Power supply 90-260Vac/dc 50-60Hz  
- Average absorption 66 W

#### Housing

ABS Single plate housing: Control unit, Peristaltic pump, Downflow photometric cell (for Chlorine measurement) Complete with pH and Redox electrodes, Temperature sensor. Hydraulic feed: Flow: max 60/lit.  
Pressure: max 1 bar



**Level/Flow measurement**

With Ultrasonic or piezometric sensor  
Measuring ranges available to be set via keyboard

**Temperature measurement**

and automatic compensation with NTC sensor.

**Graphic LCD back lighted Display**

Simultaneous visualization of: measurement, analogue and digital output status. 4 digit keyboard for programming.

**Internal Data Logger**

4 Mbit flash memory ( 16.000 records). Tabular or graphic data display with maximum, minimum and average values.

**n. 2 Analogue outputs**

freely programmable within the measuring range. Second output to be set for: level 1 or 2 differential level/temperature

**n. 5 digital output for pump control**

Rising or falling excitation with hysteresis, rotation or timing functioning.

**n.5 digital input**

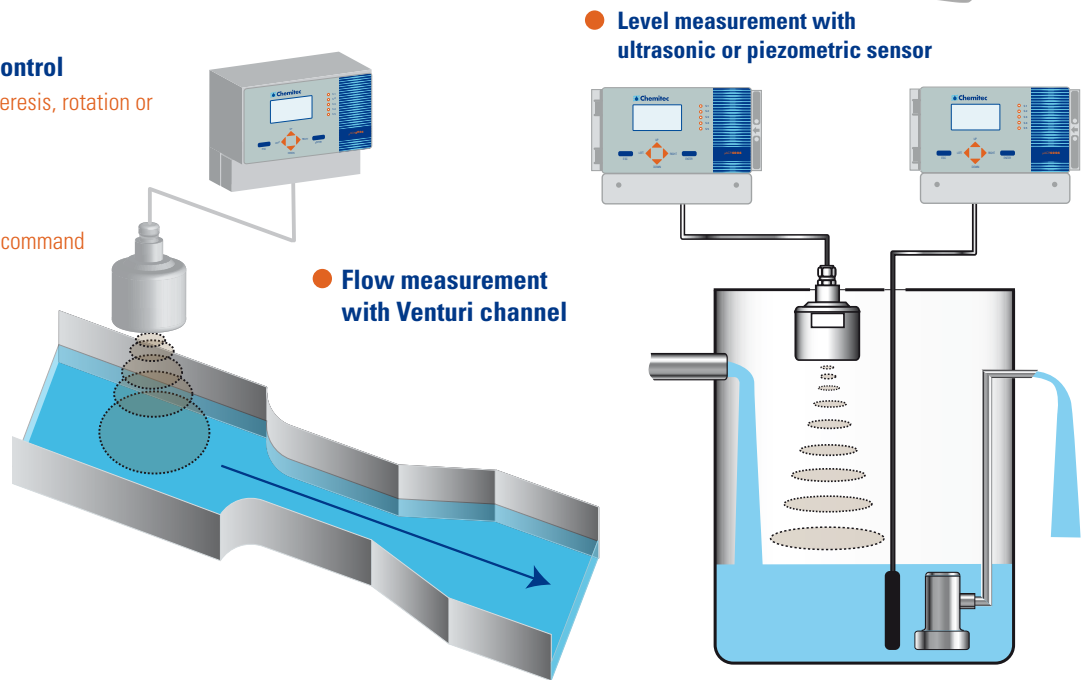
to check pump functioning and stop command

**n.1 digital output for alarm**

to be set for: minimum/maximum value, malfunctioning,

**RS485 Serial output  
MODBUS RTU protocol**

For remote set-up, real time data acquisition or download



● Level measurement with ultrasonic or piezometric sensor

● Flow measurement with Venturi channel

**Simple and quick set up driven by a conversational software. All the functions included in the following menu**



SET UP

Set point, Alarm, washing cycle, PID parameter regulation, temperature compensation, Password, Serial protocol communication, language



CALIBRATION

Automatic set of measuring range and maximum distance, with probe already installed.



ANALOGUE OUTPUT

freely programmable within the measuring range. Second output to be set for: level 1 or 2 differential level/temperature



ARCHIVE

Internal data logging of measuring data. To be set time interval recording and storing type



GRAPHIC MEASURE

Graphic display of measurement records. Time base to be set



MANUAL CONTROL

Outputs manual command for: simulation, electrical connection and working check of dosing system or remote control system

# μACP 4004

## Level/Flow meter

### MEASURING RANGES

Level : 0.30 ÷ 5.00 / 0.40 ÷ 8.00 / 0.70 ÷ 12.00mt.  
In reference with ultrasonic probe connected  
Resolution: ± 0.01mt Accuracy: 0.2% f.s.  
Temperature: -25 ÷ 75°C Resolution: 1°C Accuracy: 1% f.s.

### DISPLAY /PROGRAMMATION

Graphic DISPLAY LCD STN 128x64 back lighted  
Simultaneous display of: level/flow and temperature measurement, digital output status. Analogues output values. Recording status and malfunctioning. Pump hours of functioning. Last 6 alarms event  
Keyboard ( 4 digit ) for programming

### MEASUREMENT RECORDING

Data logger Flash 4 Mbit ( 16.000 records)  
Recording steps: 00:00 ÷ 99:99 min  
Type: f.i.f.o. or filling  
Data display: tabular or graphic

### ANALOGUE OUTPUTS

First  
Measurement: level 1/ temperature  
Type: 0.00 / 4.00 ÷ 20.00 mA galvanically separated  
Limit programmation: upper/lower  
Maximum load: 500 Ohm  
NAMUR output alarm 2.4 mA (type 4...20mA)  
Second  
To be set for: Level 1 / Level 2 / temperature / differential  
Type: 0.00 / 4.00 ÷ 20.00 mA galvanically separated  
Maximum load: 500 Ohm  
Limit programmation: upper/lower

### MOD. μACP 4004

Wall mounting version  
Mechanical Protection: Closed IP65 EN60529 – with frontal panel open IP54  
Dimension: (L x H x D) 230x185x120mm  
Weight: 1.0 Kg  
Material: Grey ABS – frontal panel Polycarbonate  
UV resistant

### DIGITAL OUTPUTS

No. 5 for pump command ON-OFF Relays - Maximum load 1A at 230Vac  
To be set for: threshold with hysteresis and timing regulation, rotation, timed functioning, daily start, range, differential  
No. 1 for Alarm ON-OFF Relays - Maximum load 1A at 230Vac  
To be set for: Echo lost, Malfunctioning, Min / Max, time out pump  
De-activation Set Point: activate/deactivate in reference with the alarm excitation  
Relay position: Normally Open / Normally Close

### DIGITAL INPUT

No. 5 for to check pump functioning and stop command  
Input supply: 24 Vdc /ac

### SERIAL OUTPUT

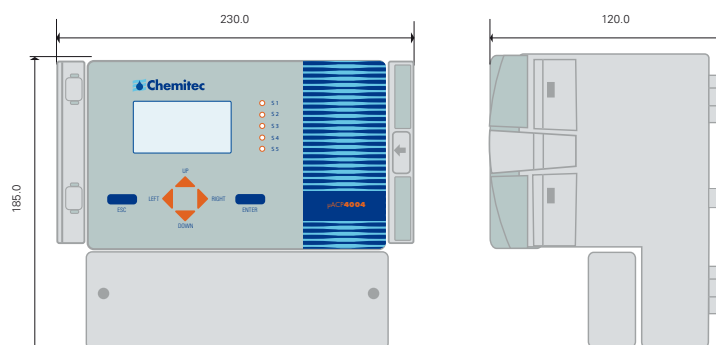
RS485 Galvanically separated 1200 ÷ 38400 Baud Rate  
MODBUS RTU Protocol

### ENVIROMENT CONDITION

Working temperature: 0÷50°C  
Storage and transport temperature -25÷65°C  
Humidity: 10-95%

### ELECTRICAL PROTECTION / SUPPLY

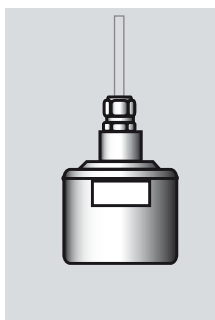
Power Supply: 90÷260Vac/dc 50-60Hz – (Optional 24Vac/dc) –  
Isolation: 4KV  
Absorption: < 12W  
Electrical Protection: EMI / RFI CEI-EN55011 – 05/99



### MEASURING SENSOR TO CONNECT TO μACP 4004 :

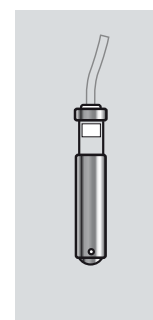
#### S425 Ultrasonic level sensor

Measuring range: 0,3 ÷ 5mt ( mod. S425/5) /  
0,4 ÷ 8mt (mod. S425/8) / 0,7 ÷ 12mt ( mod. S425/12)  
Accuracy: ± 0.5% v.l. never better than ± 1 mm  
Transmission angle: 7°  
Temperature compensation: -30÷80°C  
Supply : 24 Vdc (by μACP 4004 )  
Output signal: RS 485  
Ambient temperature: - 30 a + 80°C  
Presson: 0,5-1,5bar (absolute)  
Mechanical Protection: IP68



#### S108 Immersible piezometric level sensor

Measuring range: standard 0 ÷ 6mt.  
(other to define)  
Accuracy: ± 0,35% F.S.  
Temperature compensation: 0 ÷ 70°C.  
Supply: 12 ÷ 36Vcc  
Output signal: 4 - 20mA  
Liquid temperature: - 10 ÷ +70 °C.  
Mechanical Protection: IP68



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e-mail: [info@chemitec.it](mailto:info@chemitec.it)

**Conductivity measurement**

Measuring ranges available to be set via keyboard

**Temperature measurement**

and automatic compensation with NTC sensor.

**Graphic LCD back lighted Display**

Simultaneous visualization of: conductivity and temperature measurement, analogue and digital output status. 4 digit keyboard for programming.

**Internal Data Logger**

4 Mbit flash memory ( 16.000 records). Tabular or graphic data display with maximum, minimum and average values.

**PID regulation**

to be set for analogue or digital output ( PWM or Frequency )

**n. 2 Analogue outputs**

freely programmable within the measuring range. Second output to be set for: temperature/auxiliary/PID regulation

**n. 2 digital output for threshold**

Rising or falling excitation with hysteresis and timing regulation

**n. 1 digital output for alarm**

to be set for: minimum/maximum value, delayed alarm, malfunctioning, live check

**n.1 digital output for automatic cell washing**

Rinsing time intervals to be set via keyboard

**n.1 digital input** to stop dosing system

**RS485 Serial output MODBUS RTU protocol**

For remote set-up, real time data acquisition or download

**Manual activation** of the whole outputs, analogue and digital, for simulation.



**Simple and quick set up driven by a conversational software. All the functions included in the following menu**



SET UP

Set point, Alarm, washing cycle, PID parameter regulation, temperature compensation, Password, Serial protocol communication, language



CALIBRATION

Automatic on two different values



ANALOGUE OUTPUT

Freely programmable within the measuring range. Second output to be set for: temperature/auxiliary/PID regulation



ARCHIVE

Internal data logging of measuring data. To be set time interval recording and storing type



GRAPHIC MEASURE

Graphic display of measurement records. Time base to be set



MANUAL CONTROL

Outputs manual command for: simulation, electrical connection and working check of dosing system or remote control system

### MEASURING RANGES

Conductivity: 00.00 ± 20.00/000.0 ÷ 200.0/0 ÷ 2000μS/00.00 ÷ 20.00 mS  
(000.0 ÷ 200.0 mS on request)  
Resolution: ± 0.01/± 0.1/± 1μS/± 0.01 mS Accuracy: 1% f.s.  
Temperature: -10 ÷ 130°C Resolution: 0.1°C Accuracy: 1% f.s.

### DISPLAY /PROGRAMMATION

Graphic DISPLAY LCD STN 128x64 back lighted  
Simultaneous display of: conductivity and temperature measurement, digital output status. Analogues output values. Recording status and malfunctioning  
Keyboard ( 4 digit ) for programming

### MEASUREMENT RECORDING

Data logger Flash 4 Mbit ( 16.000 records)  
Recording steps: 00:00 ÷ 99:99 min  
Type: f.i.f.o. or filling  
Data display: tabular or graphic

### ANALOGUE OUTPUTS

First  
Measurement: conductivity  
Type: 0.00 / 4.00 ÷ 20.00 mA galvanically separated  
Limit programming: upper/lower  
Maximum load: 500 Ohm  
NAMUR output alarm 2.4 mA (type 4...20mA)  
Second  
To be set for: Temperature / Measurement repetition / PID  
Type: 0.00 / 4.00 ÷ 20.00 mA galvanically separated  
Maximum load: 500 Ohm  
Limit programming: upper/lower  
Dosing function ( P – PI – PID )  
Proportional range: 0 ÷ 500%  
Integral time: 0:00 ÷ 5:00 min  
Derivative time: 0:00 ÷ 5:00 min

### DIGITAL OUTPUTS

No. 2 for Threshold ON-OFF Relays - Maximum load 1A at 230Vac  
Set Point ON – OFF: 00.00 ÷ 20.00 / 00.00 ÷ 20.00/000.0 ÷ 200.0/0 ÷ 2000 μS/00.00 ÷ 20.00 mS  
(000.0 ÷ 200.0 mS on request)  
To be set hysteresis and timing regulation: 000 ÷ 999 seconds  
No. 1 for Alarm ON-OFF Relays - Maximum load 1A at 230Vac  
To be set for: Set Point delay, Malfunctioning, Min / Max, Dead time (live check)  
Delay time : 00:00 ÷ 59:99 mm:ss minimum step 15 seconds  
De-activation Set Point: activate/deactivate in reference with the alarm excitation  
Relay position: Normally Open / Normally Close  
Permanent range: 00.00 ÷ 20.00/000.0 ÷ 200.0 / 0 ÷ 2000ΔμS / 20.00 ΔmS  
Permanent time: 00:00 ÷ 99:99 hh:mm minimum step 15 min.  
No. 1 for Washing ON-OFF Relays - Maximum load 1A at 230Vac  
Rinsing Time intervals to be set: 00.00 ÷ 24.00 hh.mm. Minimum step 15 min.

### DIGITAL INPUT

Input supply: 24 Vdc /ac  
Absorption: 10mA max

### SERIAL OUTPUT

RS485 Galvanically separated 1200 ÷ 38400 Baud Rate  
MODBUS RTU Protocol

### ENVIRONMENT CONDITION

Working temperature: 0÷50°C  
Storage and transport temperature -25÷65°C  
Humidity: 10-95%

### ELECTRICAL PROTECTION / SUPPLY /

Power Supply: 90÷260Vac/dc 50-60Hz – (Optional 24Vac/dc) –  
Isolation: 4KV  
Absorption: < 6W  
Electrical Protection: EMI / RFI CEI-EN55011 – 05/99

#### MOD. μACP 4022 P

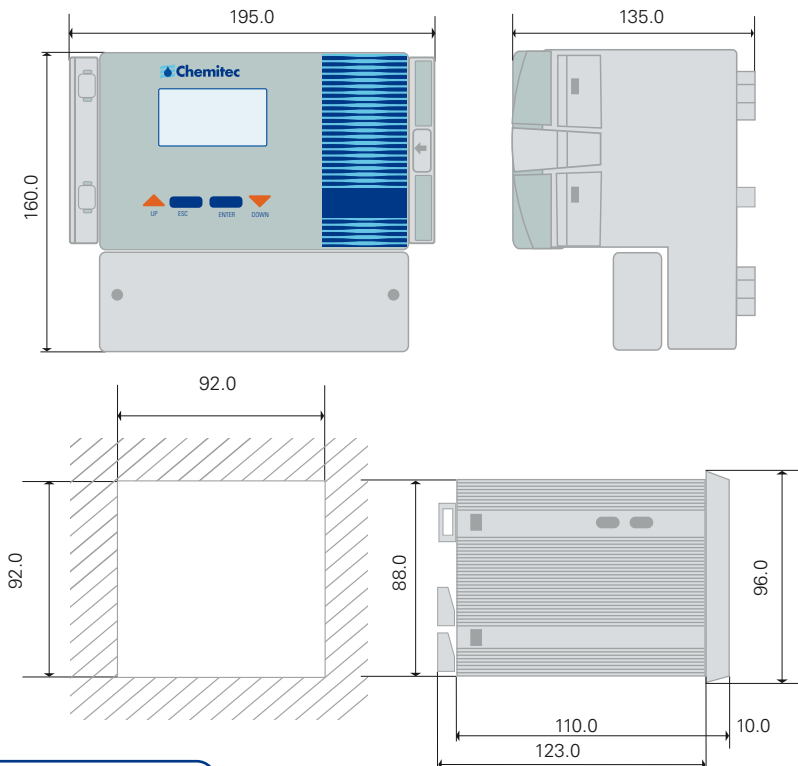
##### WALL MOUNTING VERSION

Mechanical Protection: Closed IP65 EN60529 – with frontal panel open IP54  
Dimension: (L x H x D) 195x160x140mm  
Weight: 1.0 Kg  
Material: Grey ABS frontal panel Polycarbonate UV resistant

#### MOD. μACP 4022

##### PANEL MOUNTING VERSION

Mechanical Protection: frontal panel IP54  
Rear panel IP30  
Dimension: (L x H x D) 96x96x123mm  
(135mm. mounting depth)  
Weight: .0.7 Kg  
Material: Black Grey ABS frontal panel Polycarbonate UV resistant





**pH or Redox measurement**

Available to be set via keyboard

**Temperature measurement**

and automatic compensation with NTC sensor.

**Graphic LCD back lighted Display**

Simultaneous visualization of: conductivity and temperature measurement, analogue and digital output status. 4 digit keyboard for programming.

**Internal Data Logger**

4 Mbit flash memory ( 16.000 records). Tabular or graphic data display with maximum, minimum and average values.

**PID regulation**

to be set for analogue or digital output ( PWM or Frequency )

**n.2 Analogue outputs**

freely programmable within the measuring range. Second output to be set for: temperature/auxiliary/PID regulation

**n.2 digital output for threshold**

Rising or falling excitation with hysteresis and timing regulation

**n.1 digital output for alarm**

to be set for: minimum/maximum value, delayed alarm, malfunctioning, live check

**n.1 digital output for automatic cell washing**

Rinsing time intervals to be set via keyboard

**n.1 digital input** to stop dosing system

**RS485 Serial output** MODBUS RTU protocol

For remote set-up, real time data acquisition or download

**Manual activation** of the whole outputs, analogue and digital, for simulation.



**Simple and quick set up driven by a conversational software. All the functions included in the following menu**



SET UP

Set point, Alarm, washing cycle, PID parameter regulation, temperature compensation, Password, Serial protocol communication, language



CALIBRATION

Automatic with Auto-Buffer Recognition. Evaluation of the electrode status



ANALOGUE OUTPUT

Freely programmable within the measuring range. Second output to be set for: temperature/auxiliary/PID regulation



ARCHIVE

Internal data logging of measuring data. To be set time interval recording and storing type



GRAPHIC MEASURE

Graphic display of measurement records. Time base to be set



MANUAL CONTROL

Outputs manual command for: simulation, electrical connection and working check of dosing system or remote control system

# µACP 4037

## pH or Redox and temperature Analyser - controller

### MEASURING RANGES

pH: 00.00 ÷ 14.00 Resolution: 0.01 pH Accuracy: 0.2% f.s.  
Redox: ± 1500 mV Resolution: ± 1 mV Accuracy: ± 1mV  
Temperature: -10 ÷ 130°C Resolution: 0.1°C Accuracy: 1% f.s.

### DISPLAY /PROGRAMMATION

Graphic DISPLAY LCD STN 128x64 back lighted  
Simultaneous display of: pH/Redox and temperature measurement, digital output status. Analogues output values. Recording status and malfunctioning  
Keyboard ( 4 digit ) for programming

### MEASUREMENT RECORDING

Data logger Flash 4 Mbit ( 16.000 records)  
Recording steps: 00:00 ÷ 99:99 min  
Type: f.i.f.o. or filling  
Data display: tabular or graphic

### ANALOGUE OUTPUTS

First  
Measurement: pH / Rx  
Type: 0.00 / 4.00 ÷ 20.00 mA galvanically separated  
Limit programmation: upper/lower  
Maximum load: 500 Ohm  
NAMUR output alarm 2.4 mA (type 4...20mA)

Second  
To be set for: Temperature / Measurement repetition / PID  
Type: 0.00 / 4.00 ÷ 20.00 mA galvanically separated  
Maximum load: 500 Ohm  
Limit programmation: upper/lower  
Dosing function ( P – PI – PID )  
Proportional range: 0 ÷ 500%  
Integral time: 0:00 ÷ 5:00 min  
Derivative time: 0:00 ÷ 5:00 min

### DIGITAL OUTPUTS

No. 2 for Threshold ON-OFF Relays - Maximum load 1A at 230Vac  
Set Point ON – OFF: 00.00 ÷ 14.00 pH / ± 1500 mV  
To be set hysteresis and timing regulation: 000 ÷ 999 seconds  
No. 1 for Alarm ON-OFF Relays - Maximum load 1A at 230Vac  
To be set for: Set Point delay, Malfunctioning, Min / Max, Dead time (live check)  
Delay time : 00:00 ÷ 59:99 mm:ss minimum step 15 seconds  
De-activation Set Point: activate/deactivate in reference with the alarm excitation  
Relay position: Normally Open / Normally Close  
Permanent range: 00.00 ÷ 14.00 Δ pH/ ± 1500 Δ mV  
Permanent time: 00:00 ÷ 99:99 hh:mm minimum step 15 min.  
No. 1 for Washing ON-OFF Relays - Maximum load 1A at 230Vac  
Rinsing Time intervals to be set: 00.00 ÷ 24.00 hh.mm. Minimum step 15 min.

### DIGITAL INPUT

Input supply: 24 Vdc /ac  
Absorption: 10mA max

### SERIAL OUTPUT

RS485 Galvanically separated 1200 ÷ 38400 Baud Rate  
MODBUS RTU Protocol

### ENVIROMENT CONDITION

Working temperature: 0÷50°C  
Storage and transport temperature -25÷65°C  
Humidity: 10-95%

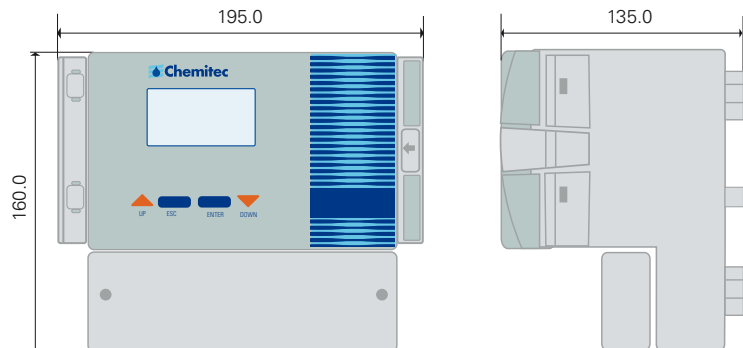
### ELECTRICAL PROTECTION / SUPPLY /

Power Supply: 90÷260Vac/dc 50-60Hz – (Optional 24Vac/dc) –  
Isolation: 4KV  
Absorption: < 6W  
Electrical Protection: EMI / RFI CEI-EN55011 – 05/99

### MOD. µACP 4037P

#### WALL MOUNTING VERSION

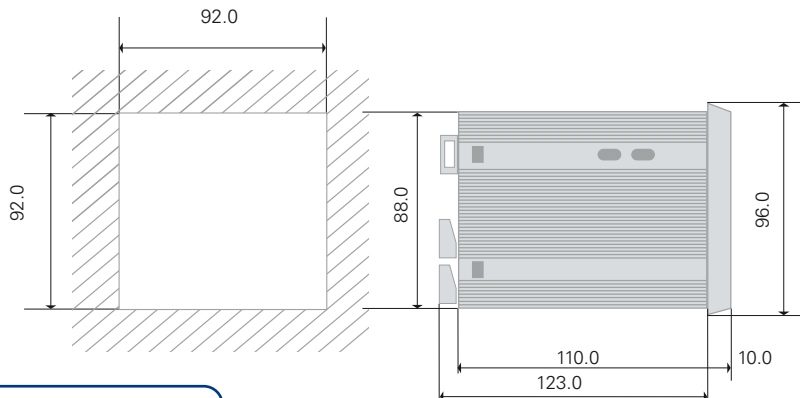
Mechanical Protection: Closed IP65 EN60529 – with frontal panel open IP54  
Dimension: (L x H x D) 195x160x135mm  
Weight: 1.0 Kg  
Material: Grey ABS – frontal panel Polycarbonate UV resistant



### MOD. µACP 4037Z

#### PANEL MOUNTING VERSION

Mechanical Protection: frontal panel IP54 – Rear panel IP30  
Dimension: (L x H x D) 96x96x123mm ( 135mm. mounting depth)  
Weight: .0.7 Kg  
Material: Black Grey ABS – frontal panel Polycarbonate UV resistant



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**Nephelometric Turbidity measurement**

Scattering 90° optical system, with double sensor to compensate the optical signal drift .  
Measuring ranges available to be set via keyboard

**Graphic LCD back lighted Display**

Simultaneous visualization of:  
Turbidity measurement, analogue and digital output status.  
4 digit keyboard for programming.

**Internal Data Logger**

4 Mbit flash memory ( 16.000 records).  
Tabular or graphic data display with maximum, minimum and average values.

**PID regulation**

to be set for analogue or digital output ( PWM or Frequency )

**no.2 Analogue outputs.**

freely programmable within the measuring range.  
Second output to be set for: auxiliary/PID regulation

**no. 2 digital output for threshold**

Rising or falling excitation with hysteresis and timing regulation

**n.1 digital output for alarm**

to be set for: minimum/maximum value, delayed alarm, malfunctioning, live check

**n.1 digital output for automatic cell washing**

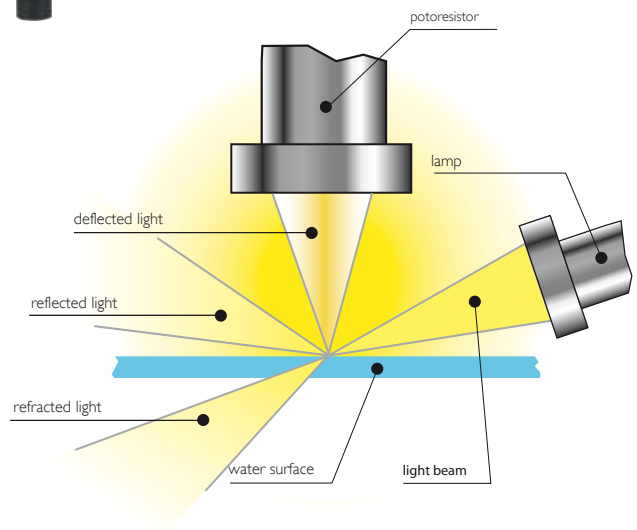
Rinsing time intervals to be set via keyboard

**n.1 digital input to stop dosing system**

**RS485 Serial output MODBUS RTU protocol**

For remote set-up, real time data acquisition or download

**Manual activation** of the whole outputs, analogue and digital, for simulation.



**Simple and quick set up driven by a conversational software. All the functions included in the following menu**



SET UP

Set point, Alarm, washing cycle, PID parameter regulation, temperature compensation, Password, Serial protocol communication, language



CALIBRATION

Automatic by using PVC plate with known reflectance ( equipped with the unit )



ANALOGUE OUTPUT

reely programmable within the measuring range. Second output to be set for: temperature/auxiliary/PID regulation



ARCHIVE

Internal data logging of measuring data. To be set time interval recording and storing type



GRAPHIC MEASURE

Graphic display of measurement records. Time base to be set



MANUAL CONTROL

Outputs anual command for: simulation, electrical connection and working check of dosing system or remote control system

### MEASURING RANGES

Turbidity : 000.0 ÷ 100.0 / 0000 ÷ 1000 FTU/NTU  
Resolution: ± 0.1 / ± 1 FTU/NTU Accuracy: 2.5% f.s.

### DISPLAY /PROGRAMMATION

Graphic DISPLAY LCD STN 128x64 back lighted  
Simultaneous display of: turbidity measurement, digital output status.  
Analogue output values. Recording status and malfunctioning  
Keyboard ( 4 digit ) for programming

### MEASUREMENT RECORDING

Data logger Flash 4 Mbit ( 16.000 records)  
Recording steps: 00:00 ÷ 99:99 min  
Type: f.i.f.o. or filling  
Data display: tabular or graphic

### ANALOGUE OUTPUTS

First  
Measurement: Turbidity  
Type: 0.00 / 4.00 ÷ 20.00 mA galvanically separated  
Limit programming: upper/lower  
Maximum load: 500 Ohm  
NAMUR output alarm 2.4 mA (type 4...20mA)  
Second  
To be set for: Temperature / Measurement repetition / PID  
Type: 0.00 / 4.00 ÷ 20.00 mA galvanically separated  
Maximum load: 500 Ohm  
Limit programming: upper/lower  
Dosing function ( P – PI – PID )  
Proportional range: 0 ÷ 500%  
Integral time: 0:00 ÷ 5:00 min Derivative time: 0:00 ÷ 5:00 min

### DIGITAL OUTPUTS

No. 2 for Threshold ON-OFF Relays - Maximum load 1A at 230Vac  
Set Point ON – OFF: 000.0 ÷ 100.0 / 0000 ÷ 1000 FTU/NTU  
To be set hysteresis and timing regulation: 000 ÷ 999 seconds  
No. 1 for Alarm ON-OFF Relays - Maximum load 1A at 230Vac  
To be set for: Set Point delay, Malfunctioning, Min / Max, Dead time (live check)  
Delay time : 00:00 ÷ 59:99 mm:ss minimum step 15 seconds  
De-activation Set Point: activate/deactivate in reference with the alarm excitation  
Relay position: Normally Open / Normally Close  
Permanent range: 000.0 ÷ 100.0 / 0000 ÷ 1000 ΔFTU/NTU  
Permanent time: 00:00 ÷ 99:99 hh:mm minimum step 15 min.  
No. 1 for Washing ON-OFF Relays - Maximum load 1A at 230Vac  
Rinsing Time intervals to be set: 00.00 ÷ 24.00 hh.mm. Minimum step 15 min.

### DIGITAL INPUT

Input supply: 24 Vdc /ac  
Absorption: 10mA max

### SERIAL OUTPUT

RS485 Galvanically separated 1200 ÷ 38400 Baud Rate  
MODBUS RTU Protocol

### ENVIROMENT CONDITION

Working temperature: 0÷50°C  
Storage and transport temperature -25÷65°C  
Humidity: 10-95%

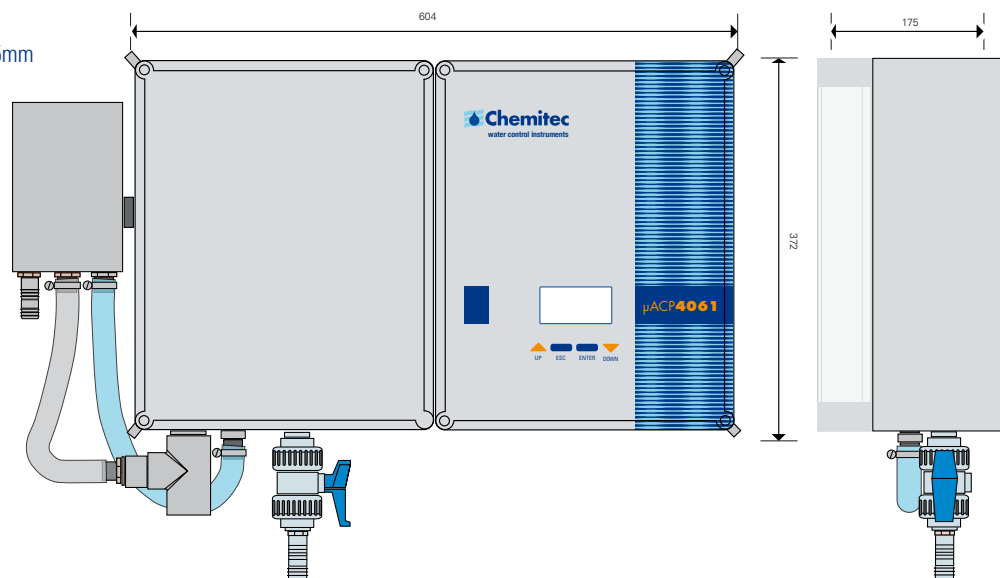
### ELECTRICAL PROTECTION / SUPPLY /

Power Supply: 90÷260Vac/dc 50-60Hz – (Optional 24Vac/dc) –  
Isolation: 4KV  
Absorption: < 6W  
Electrical Protection: EMI / RFI CEI-EN55011 – 05/99

### MOD. μACP 4061

#### WALL MOUNTING VERSION

Mechanical Protection: Closed IP55  
Dimension: (L x H x D) 604x372x175mm  
Weight: 10.5 Kg  
Material: Grey ABS ñ frontal panel Polycarbonate UV resistant



**Turbidity measurement**

Measuring ranges available to be set via keyboard

**Graphic LCD back lighted Display**

Simultaneous visualization of: Turbidity measurement, analogue and digital output status. 4 digit keyboard for programming.

**Internal Data Logger**

4 Mbit flash memory ( 16.000 records). Tabular or graphic data display with maximum, minimum and average values.

**PID regulation**

to be set for analogue or digital output ( PWM or Frequency )

**n.2 Analogue outputs**

freely programmable within the measuring range. Second output to be set for: temperature/auxiliary/PID regulation

**n.2 digital output for threshold**

Rising or falling excitation with hysteresis and timing regulation

**n.1 digital output for alarm**

to be set for: minimum/maximum value, delayed alarm, malfunctioning, live check

**n.1 digital output for automatic cell washing**

Rinsing time intervals to be set via keyboard

**n.1 digital input** to stop dosing system

**RS485 Serial output** MODBUS RTU protocol

For remote set-up, real time data acquisition or download

**Manual activation** of the whole outputs, analogue and digital, for simulation.



**Simple and quick set up driven by a conversational software. All the functions included in the following menu**



SET UP

Set point, Alarm, washing cycle, PID parameter regulation, temperature compensation, Password, Serial protocol communication, language



CALIBRATION

Automatic on two different values



ANALOGUE OUTPUT

Freely programmable within the measuring range. Second output to be set for: temperature/auxiliary/PID regulation



ARCHIVE

Internal data logging of measuring data. To be set time interval recording and storing type



GRAPHIC MEASURE

Graphic display of measurement records. Time base to be set



MANUAL CONTROL

Outputs manual command for: simulation, electrical connection and working check of dosing system or remote control system

# **μACP 4062** Turbidity Analyser - controller

## MEASURING RANGES

Turbidity : 0.00 ÷ 1.00 / 00.0 ÷ 10.0 / 0 ÷ 100 FTU/NTU  
Resolution: ± 0.01 / ± 0.1 / ± 1 FTU/NTU Accuracy: 0.5% f.s.

## DISPLAY / PROGRAMMATION

Graphic DISPLAY LCD STN 128x64 back lighted  
Simultaneous display of: turbidity measurement, digital output status.  
Analogue output values. Recording status and malfunctioning  
Keyboard ( 4 digit ) for programming

## MEASUREMENT RECORDING

Data logger Flash 4 Mbit ( 16.000 records)  
Recording steps: 00:00 ÷ 99:99 min  
Type: f.i.f.o. or filling  
Data display: tabular or graphic

## ANALOGUE OUTPUTS

First  
Measurement: Turbidity  
Type: 0.00 / 4.00 ÷ 20.00 mA galvanically separated  
Limit programming: upper/lower  
Maximum load: 500 Ohm  
NAMUR output alarm 2.4 mA (type 4...20mA)  
Second  
To be set for: Measurement repetition / PID  
Type: 0.00 / 4.00 ÷ 20.00 mA galvanically separated  
Maximum load: 500 Ohm  
Limit programming: upper/lower  
Dosing function ( P – PI – PID )  
Proportional range: 0 ÷ 500%  
Integral time: 0:00 ÷ 5:00 min  
Derivative time: 0:00 ÷ 5:00 min

## DIGITAL OUTPUTS

No. 2 for Threshold ON-OFF Relays - Maximum load 1A at 230Vac  
Set Point ON – OFF: 0.00 ÷ 1.00 / 00.0 ÷ 10.0 / 0 ÷ 100 FTU/NTU  
To be set hysteresis and timing regulation: 000 ÷ 999 seconds  
No. 1 for Alarm ON-OFF Relays - Maximum load 1A at 230Vac  
To be set for: Set Point delay, Malfunctioning, Min / Max, Dead time (live check)  
Delay time : 00:00 ÷ 59:99 mm:ss minimum step 15 seconds  
De-activation Set Point: activate/deactivate in reference with the alarm excitation  
Relay position: Normally Open / Normally Close  
Permanent range: 0.00 ÷ 1.00 / 00.0 ÷ 10.0 / 0 ÷ 100 FTU/NTU  
Permanent time: 00:00 ÷ 99:99 hh:mm minimum step 15 min.  
No. 1 for Washing ON-OFF Relays - Maximum load 1A at 230Vac  
Rinsing Time intervals to be set: 00:00 ÷ 24.00 hh.mm.  
Minimum step 15 min.

## DIGITAL INPUT

Input supply: 24 Vdc /ac  
Absorption: 10mA max

## SERIAL OUTPUT

RS485 Galvanically separated 1200 ÷ 38400 Baud Rate  
MODBUS RTU Protocol

## ENVIRONMENT CONDITION

Working temperature: 0÷50°C  
Storage and transport temperature -25÷65°C  
Humidity: 10-95%

## ELECTRICAL PROTECTION / SUPPLY /

Power Supply: 90÷260Vac/dc 50-60Hz – (Optional 24Vac/dc) –  
Isolation: 4KV  
Absorption: < 6W  
Electrical Protection: EMI / RFI CEI-EN55011 – 05/99

### MOD. μACP 4062 P

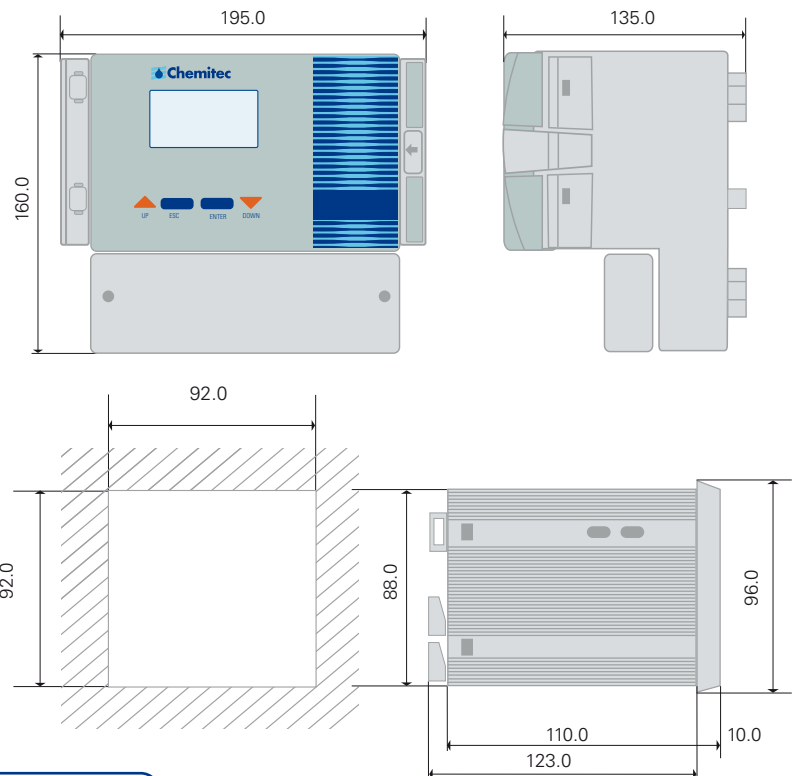
#### WALL MOUNTING VERSION

Mechanical Protection: Closed IP65 EN60529 – with frontal panel open IP54  
Dimension: (L x H x D) 195x160x135  
Weight: 1.0 Kg  
Material: Grey ABS ñ frontal panel Polycarbonate UV resistant

### MOD. μACP 4062

#### PANEL MOUNTING VERSION

Mechanical Protection: frontal panel IP54 – Rear panel IP30  
Dimension: (L x H x D) 96x96x123mm ( 135mm. mounting depth)  
Weight: .0.7 Kg  
Material: Black Grey ABS frontal panel Polycarbonate UV resistant



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tel. +39 55 756645 fax + 39 55 756697  
web site: [www.chemitec.it](http://www.chemitec.it)  
e-mail: [info@chemitec.it](mailto:info@chemitec.it)

**μACP 4063P** is used for optical measurement in clear and turbid water and in sludge application .  
It can be connect to a large range of sensors to cover a wide range of solid matter concentration .

**Main Application:** Open sewage treatment plant areas, such as inflow, preclarifier, Oxydation, sludge removal, effluent of wastewater treatment plants  
Process monitoring in chemical and paper industry, waste incinerators, steam generation plants, ect.



**Graphic LCD back lighted Display**

**Internal Data Logger 4 Mbit flash memory ( 16.000 records).**

**PID regulation**

**n.2 Analogue outputs**

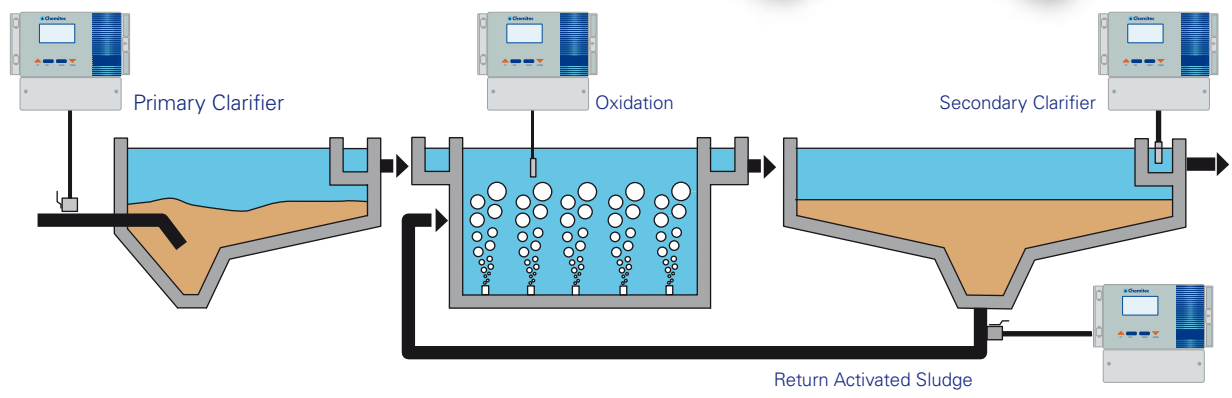
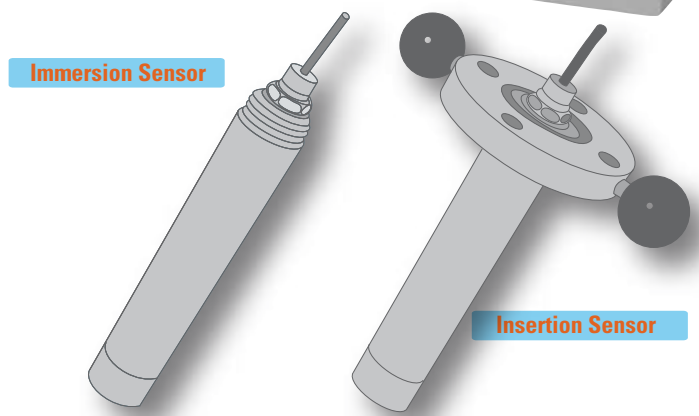
**n.2 digital output for threshold**

**n.1 digital output for alarm**

**n.1 digital output for automatic sensor washing**

**n.1 digital input to stop dosing system**

**RS485 Serial output MODBUS RTU protocol**




**Simple and quick set up driven by a conversational software. All the functions included in the following menu**



**SET UP**

Set point, Alarm, washing cycle, PID parameter regulation, Password, Serial protocol communication, language



**CALIBRATION**

Automatic by using pre-set factory calibration curves or manual.




**ANALOGUE OUTPUT**

reely programmable within the measuring range. Second output to be set for: auxiliary/PID regulation



**ARCHIVE**

Internal data logging of measuring data. To be set time interval recording and storing type



**GRAPHIC MEASURE**

Graphic display of measurement records. with maximum, minimum and average values. Time base to be set



**MANUAL CONTROL**

Outputs anual command for: simulation, electrical connection and working check of dosing system or remote control system

# μACP 4063P

## Turbidity and Sludge Concentration analyser.

### MEASURING RANGES

Measurement range ( 0÷9999 ) and unit ( FTU / NTU / ppm /gr/lit )freely selectable – in reference with the connected sensor.  
Accuracy: 0.5% f.s.

### DISPLAY /PROGRAMMATION

Graphic DISPLAY LCD STN 128x64 back lighted  
Simultaneous display of: turbidity measurement, digital output status. Analogues output values.  
Recording status and malfunctioning  
Keyboard ( 4 digit ) for programming

### MEASUREMENT RECORDING

Data logger Flash 4 Mbit ( 16.000 records)  
Recording steps: 00:00 ÷ 99:99 min  
Type: f.i.f.o. or filling  
Data display: tabular or graphic

### ANALOGUE OUTPUTS

First  
Measurement: Turbidity  
Type: 0.00 / 4.00 ÷ 20.00 mA galvanically separated  
Limit programmation: upper/lower  
Maximun load: 500 Ohm

NAMUR output alarm 2.4 mA (type 4...20mA)  
Second

To be set for: Measurement repetition / PID  
Type: 0.00 / 4.00 ÷ 20.00 mA galvanically separated  
Maximum load: 500 Ohm  
Limit programmation: upper/lower  
Dosing function ( P – PI – PID )  
Proportional range: 0 ÷ 500%  
Integral time: 0:00 ÷ 5:00 min Derivative time: 0:00 ÷ 5:00 min

### DIGITAL OUTPUTS

No. 2 for Threshold ON-OFF Relays - Maximum load 1A at 230Vac  
Set Point ON – OFF To be set hysteresis and timing regulation: 000 ÷ 999 seconds  
No. 1 for Alarm ON-OFF Relays - Maximum load 1A at 230Vac  
To be set for: Set Point delay, Malfunctioning, Min / Max, Dead time (live check)  
Delay time : 00:00 ÷ 59:99 mm:ss  
minimum step 15 seconds  
De-activation Set Point: activate/deactivate in reference with the alarm excitation  
Relay position: Normally Open / Normally Close

No. 1 for Washing ON-OFF Relays - Maximum load 1A at 230Vac  
Rinsing Time intervals and period to be set  
Minimum step 15 min.

### DIGITAL INPUT

Input supply: 24 Vdc /ac  
Absorption: 10mA max

### SERIAL OUTPUT

RS485 Galvanically separated 1200 ÷ 38400 Baud Rate  
MODBUS RTU Protocol

### ENVIROMENT CONDITION

Working temperature: 0÷50°C  
Storage and transport temperature -25-65°C  
Humidity: 10-95%

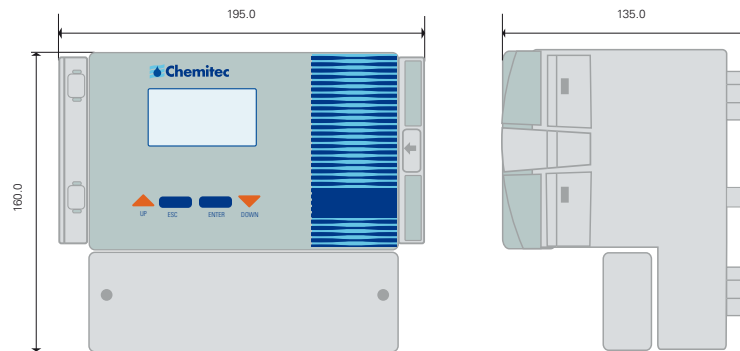
### ELECTRICAL PROTECTION / SUPPLY /

Power Supply: 90÷260Vac/dc 50-60Hz – (Optional 24Vac/dc) –  
Isolation: 4KV  
Absorption: < 6W  
Electrical Protection: EMI / RFI CEI-EN55011 – 05/99

### MOD. μACP 4063P

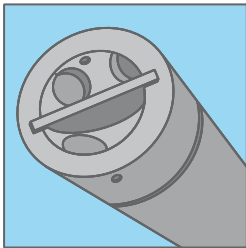
#### WALL MOUNTING VERSION

Mechanic Protection: Closed IP65 EN60529 – with frontal panel open IP54  
Dimension: (L x H x D) 195x160x135  
Weight: 1.0 Kg  
Material: Grey ABS ñ frontal panel Polycarbonate UV resistant



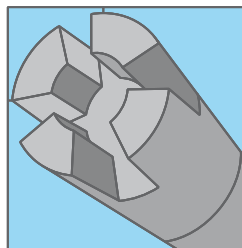
## Turbidity/Sludge Concentration Sensor suitable for ACP 4063

### 7530 SSN Turbidity



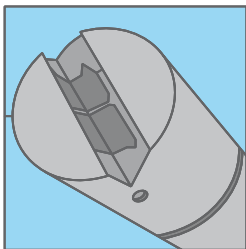
Measuring principle 90° scattered light in accordance with ISO 7027 / EN 27027.  
Infrared light at 880 nm Reference Using four-beam pulsed light method  
**Measuring range 2,0 ... 1000 FTU/FNU**  
Accuracy < 1% of meas.range end value  
Factory calibration Formazine standard  
Operating temp. 0 ÷ +50 °C  
Pressure max. 6bar Protection IP 68  
Material: Sensor body Stainless steel SS 316 Ti, POM, Araldit® glue, O-rings Viton®  
Dimensions mm (LxØ):Immersion type 137x38  
Insertion type 220 × 38

### 7510SAM Medium concentration



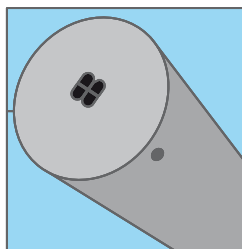
Measuring principle Light absorption method. Infrared light at 880nm Reference using four-beam pulsed light method  
**Measuring range 0 ... 12gr/lit SS, dependent on sludge type**  
Accuracy < 1% of meas.range end value  
Factory calibration with SiO2  
Operating temp. 0 ÷ +50 °C  
Material: Sensor body SS 316 Ti, Sensor window Epoxy, O-rings Viton  
Dimensions mm (LxØ):Immersion type 137x38  
Insertion type 220 × 38

### 7520SAV High concentration



Measuring principle Light absorption method. Infrared light at 880nm Reference using four-beam pulsed light method  
**Measuring range 0 ... 50gr/lit SS, dependent on sludge type**  
Accuracy < 1% of meas.range end value  
Factory calibration with SiO2  
Operating temp. 0 ÷ +50 °C  
Material: Sensor body SS 316 Ti, Sight glass Epoxy resin, O-rings Viton  
Dimensions mm (LxØ):Immersion type 139x38  
Insertion type 220 × 38

### 7540SRH Very High concentration



Measuring principle Light absorption method. Infrared light at 880nm Reference using four-beam pulsed light method  
**Measuring range 10 ... 150gr/lit SS, dependent on sludge type**  
Accuracy < 1% of meas.range end value  
Factory calibration with SiO2  
Operating temp. 0 ÷ +50 °C  
Material: Sensor body SS 316 Ti, Sight glass Epoxy resin, O-rings Viton  
Dimensions mm (LxØ):Immersion type 134x38  
Insertion type 220 × 38

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e-mail: [info@chemitec.it](mailto:info@chemitec.it)



**Dissolved oxygen measurement**

ppm, mg/l or saturation percentage. Available to be set via keyboard

**Temperature measurement**

and automatic compensation with NTC sensor.

**Graphic LCD back lighted Display**

Simultaneous visualization of: dissolved oxygen and temperature measurement, analogue and digital output status. 4 digit keyboard for programming.

**Internal Data Logger**

4 Mbit flash memory ( 16.000 records). Tabular or graphic data display with maximum, minimum and average values.

**PID regulation**

to be set for analogue or digital output ( PWM or Frequency )

**n.2 Analogue outputs.**

freely programmable within the measuring range. Second output to be set for: temperature/auxiliary/PID regulation

**n.2 digital output for threshold**

Rising or falling excitation with hysteresis and timing regulation

**n.1 digital output for alarm**

to be set for: minimum/maximum value, delayed alarm, malfunctioning, live check

**n.1 digital output for automatic probe washing**

Rinsing time intervals to be set via keyboard

**n.1 digital input to stop dosing system**

**RS485 Serial output** MODBUS RTU protocol

For remote set-up, real time data acquisition or download

**Manual activation** of the whole outputs, analogue and digital, for simulation.



**Simple and quick set up driven by a conversational software. All the functions included in the following menu**



SET UP

Set point, Alarm, washing cycle, PID parameter regulation, temperature compensation, Password, Serial protocol communication, language



CALIBRATION

Automatic or manual with automatic salinity compensation



ANALOGUE OUTPUT

Freely programmable within the measuring range. Second output to be set for: temperature/auxiliary/PID regulation



ARCHIVE

Internal data logging of measuring data. To be set time interval recording and storing type



GRAPHIC MEASURE

Graphic display of measurement records. Time base to be set



MANUAL CONTROL

Outputs manual command for: simulation, electrical connection and working check of dosing system or remote control system

# μACP 4082

## Dissolved Oxygen and temperature Analyser - controller

### MEASURING RANGES

Dissolved Oxygen: 00.0 ÷ 20.0 ppm - mg/l  
Saturation percentage: 000 ÷ 200%  
Resolution: 0.1ppm/1% Accuracy: 0.5% f.s.  
Temperature: -10 ÷ 130°C Resolution: 0.1°C Accuracy: 1% f.s.

### DISPLAY /PROGRAMMATION

Graphic DISPLAY LCD STN 128x64 back lighted  
Simultaneous display of: dissolved oxygen and temperature measurement, digital output status. Analogues output values. Recording status and malfunctioning  
Keyboard ( 4 digit ) for programming

### MEASUREMENT RECORDING

Data logger Flash 4 Mbit ( 16.000 records)  
Recording steps: 00:00 ÷ 99:99 min  
Type: f.i.f.o. or filling  
Data display: tabular or graphic

### ANALOGUE OUTPUTS

First  
Measurement: Dissolved Oxygen  
Type: 0.00 / 4.00 ÷ 20.00 mA galvanically separated  
Limit programmation: upper/lower  
Maximum load: 500 Ohm  
NAMUR output alarm 2.4 mA (type 4...20mA)

Second  
To be set for: Temperature / Measurement repetition / PID  
Type: 0.00 / 4.00 ÷ 20.00 mA galvanically separated  
Maximum load: 500 Ohm  
Limit programmation: upper/lower  
Dosing function ( P – PI – PID )  
Proportional range: 0 ÷ 500%  
Integral time: 0:00 ÷ 5:00 min  
Derivative time: 0:00 ÷ 5:00 min

### DIGITAL OUTPUTS

No. 2 for Threshold ON-OFF Relays - Maximum load 1A at 230Vac  
Set Point ON – OFF: 00.0 ÷ 20.0 ppm / 000 ÷ 200% Saturation  
To be set hysteresis and timing regulation: 000 ÷ 999 seconds  
No. 1 for Alarm ON-OFF Relays - Maximum load 1A at 230Vac  
To be set for: Set Point delay, Malfunctioning, Min / Max, Dead time (live check)  
Delay time : 00:00 ÷ 59:99 mm:ss minimum step 15 seconds  
De-activation Set Point: activate/deactivate in reference with the alarm excitation  
Relay position: Normally Open / Normally Close  
Permanent range: 00.00 ÷ 20.0 ppm Δ  
Permanent time: 00:00 ÷ 99:99 hh:mm minimum step 15 min.  
No. 1 for Washing ON-OFF Relays - Maximum load 1A at 230Vac  
Rinsing Time intervals to be set: 00.00 ÷ 24.00 hh.mm. Minimum step 15 min.

### DIGITAL INPUT

Input supply: 24 Vdc /ac  
Absorption: 10mA max

### SERIAL OUTPUT

RS485 Galvanically separated 1200 ÷ 38400 Baud Rate  
MODBUS RTU Protocol

### ENVIROMENT CONDITION

Working temperature: 0÷50°C  
Storage and transport temperature -25÷65°C  
Humidity: 10-95%

### ELECTRICAL PROTECTION / SUPPLY /

Power Supply: 90÷260Vac/dc 50-60Hz – (Optional 24Vac/dc) –  
Isolation: 4KV  
Absorption: < 6W  
Electrical Protection: EMI / RFI CEI-EN55011 – 05/99

### Mod. μACP 4082 P

#### WALL-MOUNTING VERSION

Mechanical Protection: Closed IP65 EN60529 – with frontal panel open IP54  
Dimension: (L x H x D) 195x160x130mm  
Weight: 1.0 Kg  
Material: Grey ABS – frontal panel Polycarbonate UV resistant

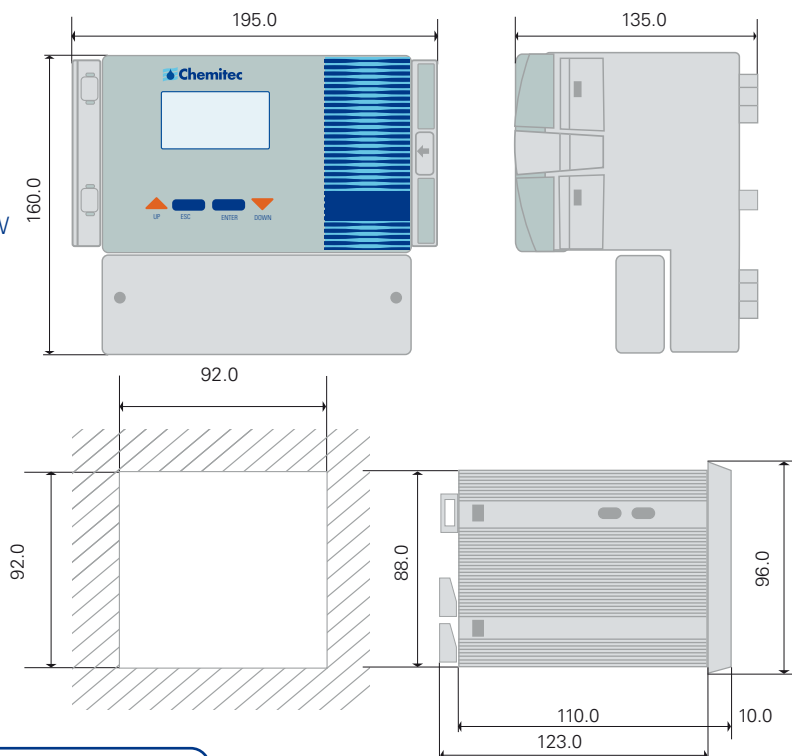
Cod. 9700401010

### Mod. μACP 4082

#### PANEL MOUNTING VERSION

Mechanical protection: Front IP54 Rear IP 30  
Dimension: (L x H x D) 96x96x123mm  
Mounting depth: 130mm  
Weight: 0.7 Kg  
Material: Black ABS – frontal panel Polycarbonate UV resistant

Cod. 9700401000



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e-mail: [info@chemitec.it](mailto:info@chemitec.it)

## 4137 pH - Rx

### Misuratore di pH/redox a $\mu$ Processore.

Misura di pH o Redox selezionabile dall'operatore da tastiera  
pH or Redox measurement Available to be set via keyboard

Misura della Temperatura con Sonda NTC e compensazione Automatica della Temperatura  
Temperature measurement and automatic compensation with NTC sensor.

Display LCD Numerico di visualizzazione. Tastiera di programmazione a 4 tasti.  
LCD numeric display. 4 digit keyboard for programming.

Calibrazione da tastiera con riconoscimento automatico dei tamponi  
Automatic calibration with Auto-Buffer Recognition.

Uscita Analogica separata galvanicamente con limiti programmabili all'interno del range di misura.  
Analogue output. galvanically separated, freely programmable within the measuring range.

n. 2 Uscite Relè per Set point , con programmazione del campo di lavoro e del ritardo di attivazione  
no. 2 digital outputs for threshold. Rising or falling excitation with hysteresis and delayed activation time



## 4122 $\mu$ S

### Misuratore di Conducibilità a $\mu$ Processore.



Misura di conducibilità con campi di misura selezionabili dall'operatore da tastiera  
Conductivity measurement Measuring ranges available to be set via keyboard

Misura della Temperatura con Sonda NTC e compensazione Automatica della Temperatura  
Temperature measurement and automatic compensation with NTC sensor.

Display LCD Numerico di visualizzazione. Tastiera di programmazione a 4 tasti.  
LCD numeric display. 4 digit keyboard for programming.

Calibrazione da tastiera su due punti  
Calibration Automatic on two different values

Uscita Analogica separata galvanicamente con limiti programmabili all'interno del range di misura.  
Analogue output galvanically separated, freely programmable within the measuring range.

n. 2 Uscite Relè per Set point , con programmazione del campo di lavoro e del ritardo di attivazione  
no. 2 digital output for threshold. Rising or falling excitation with hysteresis and delayed activation time

# 4122 $\mu$ S

# 4137 pH - Rx

## Caratteristiche tecniche

### Campi di Misura

### Risoluzione

### Precisione

### Impedenza d'ingresso

### Misura della Temperatura

### Compensazione Temperatura

### DISPLAY

### Controlli

### Calibrazione

### Uscita analogica

### Uscite digitali

### Temperatura ambiente

### Umidità

### Alimentazione / Assorbimento

### Dimensioni / Peso

### Montaggio / Protezione

## 4122 Conducimetro

00.00 ÷ 20.00/000.0 ÷ 200.0/0 ÷ 2000 $\mu$ S/00.00 ÷ 20.00 mS

0.01/ 0.1/ 1 $\mu$ S/0.01 mS

± 1% F.S.

SI

Automatica

LCD numerico 4 cifre

4 Tasti a Bolla

Automatica da tastiera

0/4÷20 mA Separata Galvanicamente carico max. 500 ohm

Nr.2 Relè in scambio ON/OFF carico max. 2 A a 230V

0 ÷ 60°C

0÷95% (non condensante)

230Vac/dc 50Hz – (Optional 110/24Vac) / < 6 W

96x96x60mm / 0.7 Kg

Quadro / IP45

## 4137 pH/ Redox- metro

00.00 ÷ 14,00pH / ± 1500mV

± 0.01pH / ± 1mV

± 0.5% F.S.

> 10 G Ohm

SI

Automatica

LCD numerico 4 cifre

4 Tasti a Bolla

Automatica da tastiera

0/4÷20 mA Separata Galvanicamente carico max. 500 ohm

Nr.2 Relè in scambio ON/OFF carico max. 2 A a 230V

0 ÷ 60°C

0÷95% (non condensante)

230Vac/dc 50Hz – (Optional 110/24Vac) / < 6W

96x96x60mm / / 0.7 Kg

Quadro/ IP45

## Technical Features

### Measuring ranges

### Resolution

### Accuracy

### Input Impedance

### Temperature Measurement

### Temperature Compensation

### DISPLAY

### Programming Keyboard

### Calibration

### Analogue Output

### Digital Outputs

### Environment Temperature

### Humidity

### Supply Voltage / Absorption

### Dimension / Weigth

### Mounting / Protection

## 4122 Conductivity

00.00 ÷ 20.00/000.0 ÷ 200.0/0 ÷ 2000 $\mu$ S/00.00 ÷ 20.00 mS

0.01/ 0.1/ 1 $\mu$ S/0.01 mS

± 1% F.S.

Yes

Automatic

LCD numeric 4 digit

4 bubble keys

Automatic via Key board

0/4÷20mA galvanically separated - Max load 500 Ohm

Nr.2 for threshold ON/OFF Max load 2 A at 230V

0 ÷ 60°C

0 ÷ 95% (non condensing)

230Vac/dc 50Hz – (Optional 110/24Vac) / < 6W

96x96x60mm / 0.7 Kg

Panel / IP45

## 4137 pH/ Redox

00.00 ÷ 14,00pH / ± 1500mV

± 0.01pH / ± 1mV

± 0.5% F.S.

> 10 G Ohm

Yes

Automatic

LCD numeric 4 digit

4 bubble keys

Automatic via Key board

0/4÷20mA galvanically separated - Max load 500 Ohm

Nr.2 for threshold ON/OFF Max load 2 A at 230V

0 ÷ 60°C

0 ÷ 95% (non condensing)

230Vac/dc 50Hz – (Optional 110/24Vac) / < 6W

96x96x60mm / 0.7 Kg

Panel / IP45

### PANEL MOUNTING VERSION

Mechanical Protection: frontal panel IP54

Rear panel IP30

Dimension: (L x H x D) 96x96x60mm

Mounting depth 75mm

Weight: .0.7 Kg

Material: Black Grey ABS frontal panel

Polycarbonate UV resistant

### VERSIONE PER MONTAGGIO A QUADRO

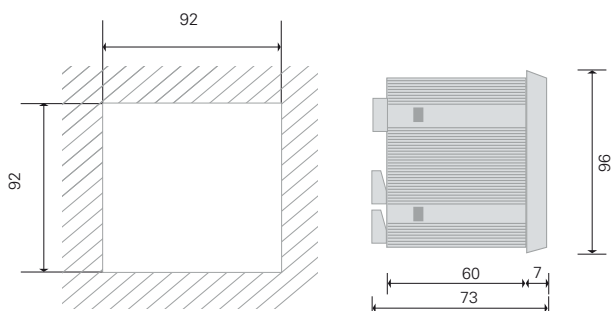
Protezione meccanica: IP54 - Posteriore IP30

Dimensioni (L x H x P): 96x96x60mm

Profondità di montaggio: 75mm

Peso: 0.7 Kg

Materiale: ABS nero;  
pannello frontale policarbonato resistente UV



 **Chemitec**  
water  
control  
instruments

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## 41xx – Analyser-controller for pH, Redox and Conductivity

- pH or Redox measurement available to be set via keyboard
- Conductivity measurement with 4 different ranges available to be set via keyboard
- Temperature measurement and automatic compensation with NTC, PT100 and PT1000 sensors.



panel version



wall mounting version

- Analogue output, galvanically separated, freely programmable within the measuring range.
- no. 2 digital outputs for threshold. Hysteresis and delayed activation time programmable

### Measuring Features

**Measuring ranges**  
**Resolution**  
**Accuracy**

### 4122 Conductivity

00.00 ÷ 20.00 / 200.0 / 2000  $\mu$ S  
0.01 $\mu$ S / 0.1 $\mu$ S / 1 $\mu$ S / 0.01mS  
1% F.S.

### 4137 pH/ Redox

00.00 ÷ 14.00pH /  $\pm$  1500mV  
0.01pH / 1mV  
0.5% F.S.

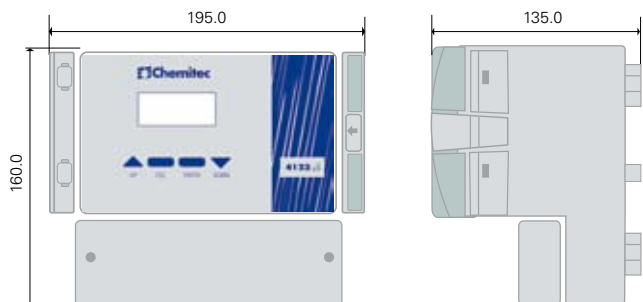
### Common Technical Features

**Visualization**  
**Programming Keyboard**  
**Temperature Compensation**  
**Calibration**  
**Analogue Output**  
**Digital Outputs**  
**Environment Temperature**  
**Supply Voltage**  
**Absorption**

LCD numeric Display 4 digit  
4 bubble keys  
Automatic  
Two points - Automatic via Key board  
0/4÷20mA galvanically separated - Max load 500 Ohm  
Nr.2 for threshold ON/OFF Max load 2 A at 230V  
0 ÷ 60°C with 0 ÷ 95% Humidity (non condensing)  
230Vac/dc 50Hz – (Optional 110/24Vac)  
< 6W

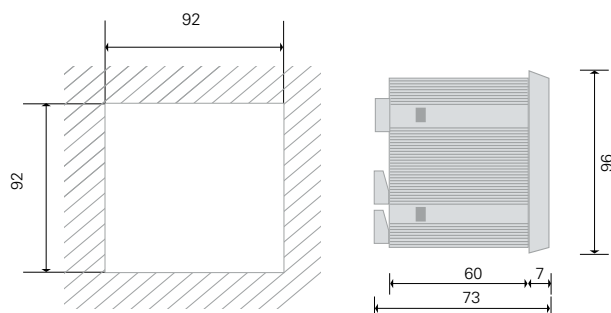
**4137** pH/Rx  
**4122**  $\mu\text{S}$

## 41xx – Analyser-controller for pH, Redox and Conductivity



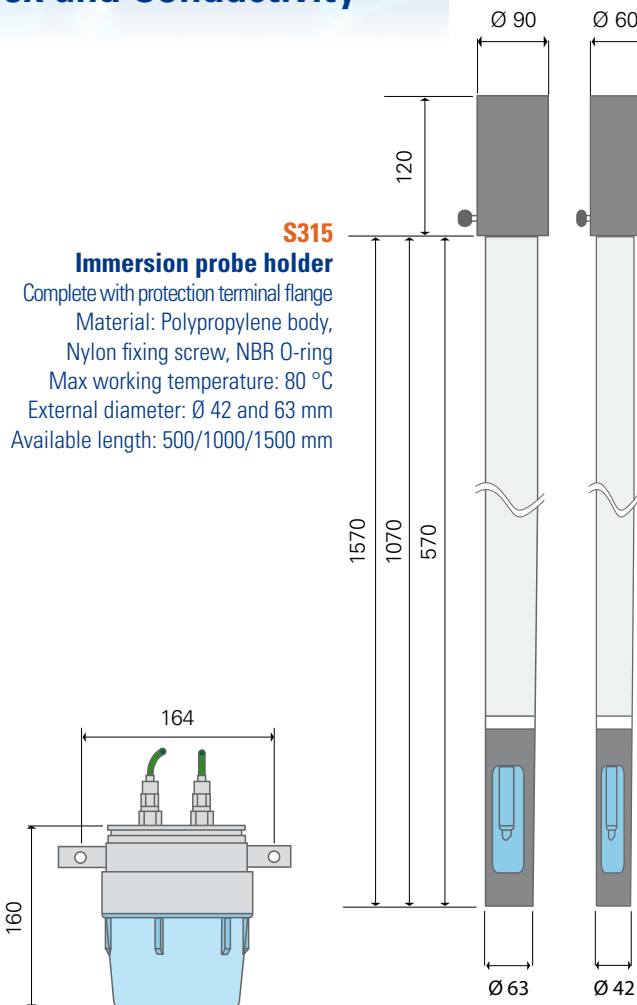
### Mod. 4122P/4137P WALL MOUNTING VERSION

Mechanical Protection: Closed IP65 EN60529 –  
 with frontal panel open IP54  
 Dimension: (L x H x D) 195x160x135mm  
 Weight: 1.0 Kg  
 Material: Grey ABS



### Mod. 4122/4137 PANEL MOUNTING VERSION

Mechanical Protection: frontal panel IP54  
 Rear panel IP30  
 Dimension: (L x H x D) 96x96x60mm  
 Mounting depth 85mm  
 Weight: .0.7 Kg  
 Material: Black ABS



### S315

#### Immersion probe holder

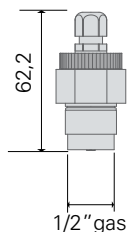
Complete with protection terminal flange  
 Material: Polypropylene body,  
 Nylon fixing screw, NBR O-ring  
 Max working temperature: 80 °C  
 External diameter:  $\varnothing$  42 and 63 mm  
 Available length: 500/1000/1500 mm

### S305W/2 Down flow probe holder For 2 electrodes

Complete with bracket for wall mounting  
 Material: PVC Body and SAN transparent Becker.  
 Max working temperature: 50 °C Max working pressure: 4 bar.  
 Dim. mm. ( $\varnothing$  x h ) 130 x 160 Hydraulic connection 3/8" GF

### S411S Conductivity cell

K=1 Constant  
 PVC body 1" threaded with  
 stainless steel electrodes.  
 Measuring range 0÷10.000  $\mu\text{S}$   
 Max working temperature 50 °C  
 Max working pressure 1 bar.  
 Without cable



### S406P Redox Electrode

Plastic body, reference electrolyte:  
 polymer. Diaphragm type:  
 Single pore  
 Measuring range  $\pm$  1000mV  
 Working temperature 0÷60°C  
 Max working pressure 6 bar  
 Min. sample conductivity 50 $\mu\text{S}$   
 5 mt. cable included  
 Dim. mm. ( $\varnothing$  x l ) 12 x 120



### S401P pH Electrode

Plastic body, reference electrolyte:  
 polymer. Diaphragm type:  
 Single pore  
 Measuring range 2.0÷14.0 pH  
 Working temperature 0÷60°C  
 Max working pressure 6 bar  
 Min. sample conductivity 50 $\mu\text{S}$   
 5 mt. cable included  
 Dim. mm. ( $\varnothing$  x l ) 12 x 120



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# SK 1040 GSM ALARM

Ricevere informazioni e trasmettere comandi  
direttamente dal proprio telefono cellulare



**Trasmissione di allarmi e di informazioni tramite messaggi SMS**  
**Alarm and information transmission by SMS**

**Data logger interno per memorizzazione dati**  
**Internal data logger to store data**

**Display LCD per verifica immediata dello stato di funzionamento**  
**LCD Display to check immediately the working conditions**

**Semplice configurazione tramite SW dedicato di corredo**  
**Simple configuration through dedicated SW in the kit**

**Disponibile in versione da retroquadro o per montaggio a parete**  
**Available for back of board and wall fitting version**

# SK 1040 GSM ALARM

## Accessori per ottimizzare il processo Accessories for process optimization

# GSM



Montaggio su barra

### Caratteristiche tecniche / Technical features

<b>Alimentazione</b>	24Vac/dc
<b>Ingressi digitali</b>	n°8 24Vac/dc fotoaccoppiati
<b>Ingressi analogici</b>	n°4 0/4 - 20mA
<b>Ingresso totalizzatore</b>	n°1 24Vdc
<b>Porta Seriale RS232</b>	n°1 Per configurazione periferica
<b>Ingresso batteria</b>	n°1 Di Backup e invio SMS per mancanza alimentazione
<b>Uscite digitali</b>	n°4 Relè ON/OFF carico resistivo max 1A 230Vac
<b>Modem GSM interno</b> (carta SIM non inclusa)	n°1 Dual band 900-1800Mhz - potenza RF di picco 2W (+33dBm) su 50 Ohm - Sim compatibile con fase 2 GSM11.14. SIM 3/5 volts
<b>Data logger</b>	512 K di memoria (12.000 registrazioni) Intervallo minimo di registrazione: 1 min.
<b>Visualizzatore</b>	Display LCD Alfanumerico 2 righe per 16 caratteri retroilluminato 157x86x60 Montaggio su Barra Din
<b>Dimensioni</b>	250x300x140 Montaggio a parete IP65 Trasformatore 230Vac / 24Vac barra DIN
<b>Optional</b>	Batteria al piombo 12V 1.2A
<b>Power supply</b>	24Vac/dc
<b>Digital inputs</b>	n°8 24Vac/dc photocoupled
<b>Analogue inputs</b>	n°4 0/4 - 20mA
<b>Totalizer input</b>	n°1 24Vdc
<b>Serial port RS232</b>	n°1 for peripheral configuration
<b>Battery input</b>	n°1 Backup and SMS sending for lack of feeding
<b>Digital outputs</b>	n°4 ON/OFF Relay max resistive load 1A 230Vac
<b>Internal GSM Modem</b> (SIM card not included)	n°1 Dual band 900-1800Mhz RF peak power 2W (+33dBm) on 50 Ohm Compatible Sim with phase 2 GSM11.14. SIM 3/5 volts
<b>Data logger</b>	512 K of storage (12.000 recordings) - Minimum recording interval 1 min.
<b>Display</b>	LCD alphanumeric 2lines for 16 character backlighted display
<b>Sizes</b>	157x86x60 Fitting on Din Bar - 250x300x140 Wall fitting IP65
<b>Optional</b>	Transformer 230Vac / 24Vac DIN bar - Plumb battery 12V 1.2A

#### SK 1040 Gsm Alarm sfruttando la tecnologia GSM ed i messaggi SMS, permette di:

- Monitorare fino a 4 ingressi analogici (4-20mA o 0-20mA), con programmazione di due soglie per canale ed invio di un SMS di allarme al loro superamento.
- Monitorare fino ad 8 ingressi digitali, definendo la condizione di allarme ( NA o NC ) con invio di un SMS di allarme al loro cambio di stato.

Ad ogni segnale può essere associata una descrizione per facilitare l'identificazione durante la lettura dei report SMS. E' possibile programmare un tempo di ritardo all'invio della notifica affinché la condizione di allarme sia stabilizzata.

- Uno degli ingressi digitali è configurabile in modo indipendente come allarme di mancanza rete del quadro elettrico. (necessaria batteria tampone)
- Modificare da remoto lo stato di attivazione dei 4 relé tramite messaggio SMS inviato dal telefono cellulare dell'operatore. Il comando dovrà essere accompagnato da un'apposita password.
- Richiedere l'invio di messaggi di Report sullo stato corrente degli ingressi e dei relé della periferica. Anche tali richieste dovranno essere accompagnate da password.
- Impostare fino a tre diversi numeri telefonici per l'invio degli SMS: tutti gli allarmi vengono notificati a ciascuno dei numeri impostati.
- Memorizzare fino a 12.000 registrazioni con creazione di archivi storici di dati che possono essere scaricati direttamente tramite collegamento ad un PC locale - o trasmessi via MODEM ad un centro di controllo remoto.

La configurazione avviene esclusivamente tramite un apposito software (di corredo).

Il Display LCD - 2 righe per 16 caratteri - indica all'operatore lo stato di funzionamento della periferica

La periferica Gsm dovrà essere dotata di una scheda SIM (non inclusa nella fornitura).



Montaggio a parete IP65

#### SK 1040 Gsm Alarm applying the GSM technology and using SMS allows:

- Monitoring up to 4 analogue inputs (4-20mA or 0-20mA), with programming of two thresholds per channel and sending an alarm SMS as soon as they are overcome.
- Monitoring up to 8 digital inputs, defining the alarm condition ( NC or NO ) by sending an alarm SMS when the condition changes.

For each signal a description may be associated to help the identification during the SMS report reading. It is possible to programme a delay time when the message is sent so that the alarm condition is stabilised.

- One of the digital inputs may be configured independently as an alarm for power failure in the electrical panel (it is necessary a buffer battery)
- Modifying the remote activation condition of the 4 relays through a SMS sent from the operator's mobile phone. The control shall be followed by an appropriate password.
- Demanding the sending of Report messages on the current condition of peripheral inputs and relays. These demands have to be followed by password, too.
- Setting up to three different telephone numbers to send SMS: all the messages are sent to each of the set numbers.
- Storing up to 12.000 recordings with the creation of historical databases that can be directly downloaded - through the connection to a local PC - or sent by MODEM to a remote control centre.

The configuration is made exclusively by a special software (in the kit). LCD - 2 line per 16 characters Display - it shows the operator the peripheral working condition. Gsm peripheral will have to be equipped with a SIM card (not being included in the supply).

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**SISTEMI DI  
CAMPIONAMENTO  
MAXX GmbH**



# SPII-A 2X10

## Campionatore stazionario termostato autosvuotante



La **Chemitec** s.r.l., oltre a produrre direttamente strumentazione per il controllo di qualità delle acque, da molti anni commercializza in Italia sistemi per il campionamento degli scarichi.

La lunga esperienza maturata dalla **MAXX GmbH**, in più di 20 anni di progettazione e produzione di campionatori, consente oggi di offrire una vasta gamma di apparecchiature e di soluzioni tecniche per il prelievo automatico di campioni liquidi, nelle più svariate condizioni impiantistiche.

I modelli presentati in questo depliant si riferiscono alla produzione standard ma, grazie all'utilizzo di sistemi modulari, su di essi sono facilmente eseguibili modifiche e personalizzazioni che rispondano alle esigenze specifiche di ciascun utilizzatore.

Tutte le apparecchiature, sia per installazione fissa che portatile, sono progettate con lo scopo di renderne semplice l'utilizzo e, soprattutto, la gestione e manutenzione.

**Unità elettronica di controllo** - uguale per tutti i modelli della gamma – grazie ad un Software estremamente flessibile consente: l'impostazione di sei differenti programmi di campionamento; la scelta della logica di prelievo secondo tempo, portata o evento; l'attivazione a distanza tramite comando esterno; la memorizzazione degli eventi di campionamento e malfunzionamento con eventuale emissione di allarmi; la completa programmazione da PC remoto, tramite un software dedicato, anche in collegamento via **modem GSM**.

Una serie di accorgimenti elettromeccanici e di software permettono all'operatore in campo di controllare il funzionamento separato di tutti gli organi del sistema ed eventualmente di intervenire semplicemente su ciascuno di essi.

# Campionatori stazionari

SP II

## Campionatore stazionario termostato.

Campionatore automatico per prelievo di campioni in pozzetti o tubazioni non in pressione, tramite pompa a vuoto.

### Alloggiamento

Nr. 2 comparti separati a doppia parete, in acciaio inox 1.4301, ciascuno con portello e serratura. Comparto superiore, contenente la parte elettronica di controllo e l'unità dosatrice, con portello finestrato. Comparto inferiore termostato, coibentato (40 mm), contenente il sistema di distribuzione ed i flaconi, con portello cieco. Tettuccio superiore apribile per ispezione

### Termostatazione

Automatica a + 4°C Indipendente dall'unità di controllo

### Unità di controllo:

Microprocessore con 128KB Eprom, 32KB di ram, 16KB di EEprom. 16 I/O digitali, 8 I/O analogici. Clock real-time. Tastiera impermeabile. Display LCD 4 x 20 retroilluminato. Batteria tampone per i dati di programmazione

### Programmazione (sotto password)

multi-lingua selezionabile – (italiano, tedesco, inglese, francese,);  
in relazione al tempo – intervallo compreso tra 1min e 99h e 59min.  
in relazione alla portata – tramite misuratore di portata che disponga di un segnale in uscita di tipo analogico (0/4 – 20mA ) o digitale.  
in relazione ad evento – (anche in combinazione con tempo o portata) contatto attivato da comando remoto o set point di misuratori di pH, °C, Conducibilità, Ossigeno ect.  
Riempimento di ciascuna bottiglia in relazione al tempo o al numero di campioni  
Ritardo di partenza con data ed ora  
Nr. 6 differenti programmi di campionamento liberamente impostabili  
Memorizzazione degli eventi di campionamento e malfunzionamento con data e ora.  
Possibilità di programmazione ed acquisizione dati da PC remoto – tramite porta seriale RS 232 e Software dedicato (optional)

### Interfaccia

Porta seriale: RS 232 per collegamento a Modem, Personal Computer o stampante (RS 485 opt.)  
Ingresso analogico 0/4-20 mA. Ingresso digitale per evento o misuratore di portata lanciaimpulsi  
Uscite digitali: nr. 4 per segnalazione di stato e anomalie (opt.)

### Unità dosatrice

In vetro Pyrex. Dosaggio variabile: 20 - 350 ml. con controllo di livello di tipo conduttivo (regolazione via SW della sensibilità) Valvola di scarico(brevettata): sistema rotante motorizzato – senza interruzione del tubo di scarico – aperta frontalmente, senza parti bagnate

### Gruppo di prelievo

Pompa per vuoto a membrana per spurgo, aspirazione e aerazione. (regolazione via SW della potenza) Velocità media di aspirazione 60cm/sec. (con prevalenza 5mt.)  
Max prevalenza di aspirazione: 7,5mt. Pressione 1bar. Diam. Int. Tubo di campionamento 1/2"  
Su richiesta: Pompa Peristaltica ad alta precisione. Volume di prelievo regolabile via SW. Sensore di presenza liquido incorporato.

### Dimensioni

mm. 1.290 x 690 x 700 - Peso Kg. 100 ca

### Alimentazione

230V – 50/60Hz. Consumo: 250VA

### Temperatura ambiente

-20 ÷ +40°C

### Versioni standard disponibili (altre a richiesta)

1 flacone da 25,0 o 50,0 lt. in PE  
2 flaconi da 10,0 lt. in PE  
4 flaconi da 6,0 lt. in PE  
12 flaconi da 2,9 lt. in PE o in Vetro  
24 flaconi da 1,0 lt. in PE o in Vetro

SP III

## Campionatore stazionario termostato autosvuotante.

Campionatore automatico con caratteristiche analoghe al SP II, ma con svuotamento automatico dei flaconi e lavaggio sincronizzato.

### Sistema di svuotamento

Valvole a schiacciamento posizionate nella parte inferiore dei flaconi: ad azionamento automatico o manuale per svuotamento forzato. Dispositivo lavaggio flaconi: Sincronizzato con il cambio flacone e con lo svuotamento automatico dello stesso. Immissione dell'acqua di lavaggio tramite elettrovalvola. ( pressione max 2bar)



# Campionatori Portatili

## TP I Campionatore Portatile



Campionatore automatico per prelievo di campioni in pozzetti o tubazioni non in pressione, tramite pompa a vuoto. Alimentazione a batterie ricaricabili o diretta da rete. Vano di contenimento flaconi coibentato a refrigerazione passiva o attiva. Disponibile nelle versioni da: 1 flacone da 10,0 lt. in PE - 2 flaconi da 5,0 lt. in PE - 12 flaconi da 1,0 lt. in PE - 24 flaconi da 0,4 lt. in PE.

**Alloggiamento:** Sezione elettronica di comando e prelievo: mm 400x405x230 - Peso Kg. 13 ca. - Acciaio Inox 1.4301 con maniglia di trasporto e portello lucchettabile

Sezione alloggiamento flaconi di raccolta campione: mm. 370x578x340 - Contenitore Isobox in PE coibentato con schiuma isolante interna sp.30mm.

**Termostatazione:** Con Isobox passivo: Tramite inserimento di ghiaccio secco nel vano di contenimento flaconi  
Con Isobox attivo: automatica a + 4°C (Alimentazione: 220 / 24 / 12 V)

**Gruppo di prelievo:** Pompa per vuoto a membrana per spurgo, aspirazione e aerazione. (regolazione via SW della potenza) Velocità media di aspirazione 60cm/sec. (con prevalenza 5mt.) - Max prevalenza di aspirazione: 6,0 mt. Pressione 1bar. Diam. Int. Tubo di campionamento 1/2"

Su richiesta: Pompa Peristaltica ad alta precisione. Volume di prelievo regolabile via SW. Sensore di presenza liquido incorporato.

**Altre caratteristiche (Unità di controllo, Programmazione, Interfaccia, Unità dosatrice) come SPII.**

## TP II Campionatore Portatile



Campionatore automatico per prelievo di campioni in pozzetti o tubazioni non in pressione, tramite pompa a vuoto. Alimentazione a batterie ricaricabili o diretta da rete. Base di alloggiamento dei flaconi con possibilità di inserimento di ghiaccio per refrigerazione dei campioni. Disponibile nella versione da 24 flaconi da 1,0 lt. in PE - optional con 1 flacone da 10,0 lt.

**Alloggiamento:** in PE costituito da 3 parti: mm.680 x 460 ( Ø ) - Peso Kg. 23 ca. - Base di contenimento flaconi, gruppo di controllo e prelievo campione, coperchio con ganci di chiusura e maniglie di trasporto

**Termostatazione:** Tramite inserimento di ghiaccio nel vano di contenimento flaconi

**Gruppo di prelievo:** Pompa per vuoto a membrana per spurgo, aspirazione e aerazione. (regolazione via SW della potenza) Velocità media di aspirazione 60cm/sec. (con prevalenza 5mt.) - Max prevalenza di aspirazione: 6,0 mt. Pressione 1bar. Diam. Int. Tubo di campionamento 1/2"

Su richiesta: Pompa Peristaltica ad alta precisione. Volume di prelievo regolabile via SW. Sensore di presenza liquido incorporato.

**Altre caratteristiche (Unità di controllo, Programmazione, Interfaccia, Unità dosatrice) come SPII.**

## Mini-MAXX Testata di campionamento



Testata di campionamento estremamente compatta per prelievo di campioni in pozzetti o tubazioni non in pressione, tramite pompa peristaltica. Alimentazione a batterie ricaricabili o diretta da rete.

**Alloggiamento:** Plastica rinforzata con fibra di vetro e maniglia di trasporto

**Unità di controllo:** a Microprocessore

**Programmazione:** Tutti i dati di campionamento sono inseriti, tramite un Software dedicato, all'interno di una chiave EEPROM da collegare successivamente al campionatore per avviarne il ciclo di lavoro

**Interfaccia:** Ingresso digitale da misuratore di portata lanciaimpulsi (opt. Ingresso analogico 0/4-20 mA. )

**Gruppo di prelievo:** Pompa Peristaltica ad alta precisione. Volume di prelievo regolabile via SW. Sensore di presenza liquido incorporato. Max Prevalenza di aspirazione ca. 6,0 mt.

**Dimensioni:** mm 160 x 260 x 100 - Peso Kg. 5,5 ca.

**Alimentazione:** 12Vcc con batteria ricaricabile o da rete a 220V tramite caricabatteria

**Temperatura ambiente:** 0 ÷ +40°C

## Kanal-MAXX Campionatore per eventi di pioggia



Funzionamento senza alimentazione elettrica, applicabile anche in zone a rischio di esplosione..

**Alloggiamento:** Plastica PVC

**Attivazione:** In relazione al livello del liquido. L'apertura della valvola di ingresso del tubo di prelievo avviene tramite lo "scioglimento" di una particolare pasticca posta all'interno.

**Interfaccia:** Ingresso digitale da misuratore di portata lanciaimpulsi (opt. Ingresso analogico 0/4-20 mA. )

**Metodo di prelievo:** Per aspirazione. Serbatoio sotto vuoto da 2,5 lt.

**Dimensioni:** mm 600 x 145 Ø - Peso Kg. 2 ca.

**Temperatura ambiente:** 0 ÷ +40°C

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