

The **EC3050** and **EC3055** belong to the latest series of instruments. These products are the result of more than 40 years of experience in the measurement and control of electric conductivity and total dissolved salts.

The sensors and submersible probes in our catalog allow the visualization of the temperature value as well, making the instruments suitable for any type of application and installation.

EC3055 is the left model and EC3050 is the right model.



Main features

EC scales related to the K of the cell

K=0.01	200.0/2000 nS - 20.00/200.0/2000 µS
K=0.1	2000 nS - 20.00/200.0/2000 µS - 20.00 mS
K=0.5	10.00/100.0/1000 µS - 10.00/100.0 mS
K=1	20.00/200.0/2000 µS - 20.00/200.0 mS
K=10	200.0/2000 µS - 20.00/200.0/2000 mS

TDS scales related to EC scales

100.0/1000 ppb
5.00/10.00/50.0/100.0/500/1000 ppm
5.00/10.00/50.0/100.0/1000 ppt

Resistivity scales related to EC scales

5.00÷999.99	0.500÷99.999	MΩ
50.0÷9999.9	5.00÷999.99	0.500÷99.999 kΩ
50.0÷9999.9	5.00÷999.99	0.500÷99.999 Ω

Temperature scales

-10.0 ÷ 110.0 °C, 14.0 ÷ 230.0 °F

Measuring units

%, ppt, ppm, ppb, g/l, mg/l, µg/l, Bè, custom (4 characters max)

Display

The multi-line graphic display shows the values of the measures and the messages which guide the user through set-up, configuration and during normal operation.

Keyboard

There are dedicated keys to directly access zero and sensitivity calibration as well as set point configuration.

Operating mode

The meters can operate in automatic, measure or simulated mode so to facilitate start-up or maintenance.

Two filters software

The user can set two filters in order to obtain a stable reading and a faster response to the variations of the measurement in the process.

Two analog outputs

Can be addressed to any input and programmable 0/4 - 20 mA on two points of the scale. They allow PID control or transmission of the measured values.

Two On/Off regulators

Independent and addressable to any input with programmable set point on the scale.

PID output

During PID control through the analog output, the level of the actuation is displayed.

The user can select an FM regulation (pulse frequency) or WM (pulse width) addressed to the assigned relay.

Alarm

The relay is dedicated to min/max values of the measures, the excessive activation of relays and the presence of the logic inputs.

Logic inputs

Two free voltage contacts can generate a hold or alarm condition.

Autocleaning

A relay is dedicated to an external device for the sensor self-cleaning. This function is fully programmable through the controllers' software.

Universal power supply

From 85 to 264Vac, 50/60 Hz.

The low voltage option allows to power the unit from 9 to 36Vdc or from 12 to 24Vac, 50/60 Hz.

Easy installation

All EC3050 series of controllers have IP65 protection rating. They are suitable for wall mounting, or for DIN rail and handrail by means of optional accessories.

Series EC3055 has an IP65 front panel and it is designed for customers who prefer panel mounting.

Compatible and versatile

The analyzers are compatible with all our conductivity sensors. The temperature measuring and compensation is done with Pt100 or Pt1000 two or three wires probes.



Applications

- Aquaculture
- Chemical industry
- Drinking water
- Electroplating
- Horticulture
- Food and beverage
- Paper and pulp
- Pharmaceutical
- Printing industry
- Swimming pools
- Textile industry
- Underground water
- Water treatment

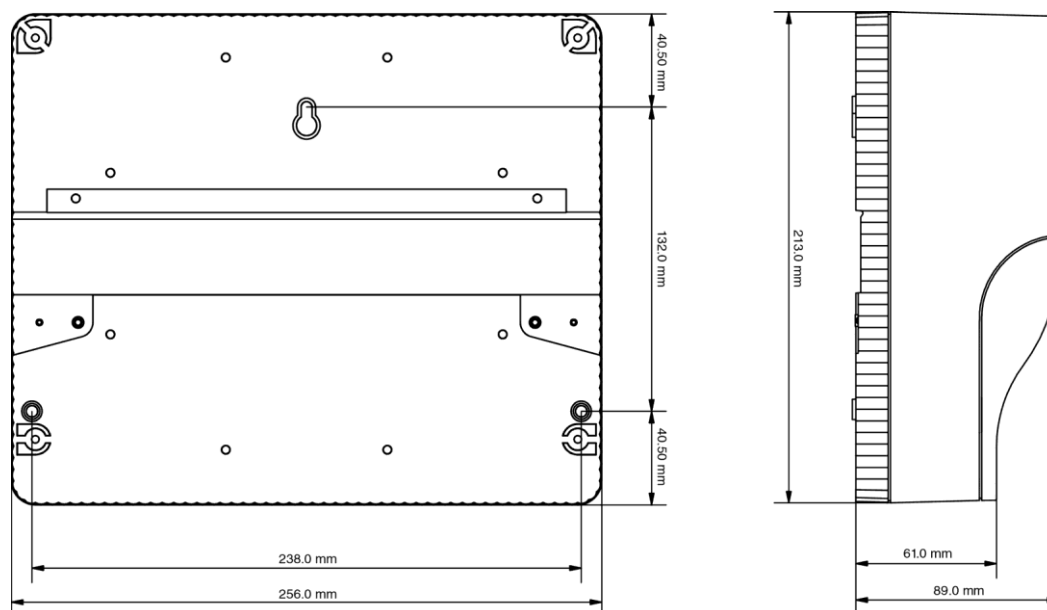
Technical specifications

Inputs:	2 electrodes cells 4 electrodes cells (option) Pt100 o Pt1000
Zero:	$\pm 10 \%$, $\pm 5^{\circ}\text{C}$, $\pm 9^{\circ}\text{F}$
Sensitivity:	60 ÷ 160 %
Resolution:	1/2000, 0.1 °C/°F
Accuracy:	0.2 %
Repeatability:	0.1 %
Non linearity:	0.1 %
Dual filter software:	0.4 ÷ 50.0 seconds for small and large variations
Dual analog output:	0-20 mA / 4-20 mA Rmax 600 Ω
Dual set points HI/LO:	ON/OFF - PID - PFM - PWM, SPST relays
Hysteresis:	0 ÷ 1 %
Delay:	0 ÷ 999.9 seconds
Alarm:	SPDT relay with delay 0 ÷ 100.0 seconds
Cleaning function:	off / autoclean / manual, relay SPDT repetition time 0.1 ÷ 100.0 hours cleaning time 1.0 ÷ 60.0 seconds holding time 0.0 ÷ 20.0 minutes
SPST and SPDT relay contacts:	220V - 5 A resistive load Operating temperature: -10 ÷ 60 °C
Humidity:	95% without condensation
Power supply:	85 ÷ 264Vac - 50/60 Hz 9 ÷ 36Vdc, 12 ÷ 24Vac (option 091.42x)
Terminal blocks:	removable
Weight:	1360 g (EC3050) 450 g (EC3055)
Enclosure:	ABS, IP 65 protection (EC3050) Metallic, IP 65 front panel only (EC3055)
Dimensions:	256x230x89 mm (EC3050) 98x98x104 mm, 90x90x95 mm panel cutout (EC3055)
EMC/RFI conformity:	EN 61326
Registered design:	002564666-002 (EC3050) 002564666-003 (EC3055)

The technical specifications could be changed without notice.



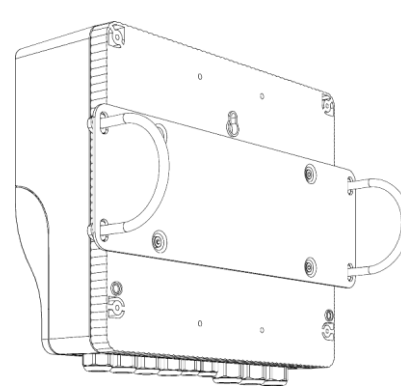
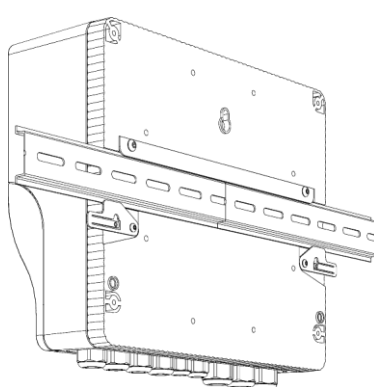
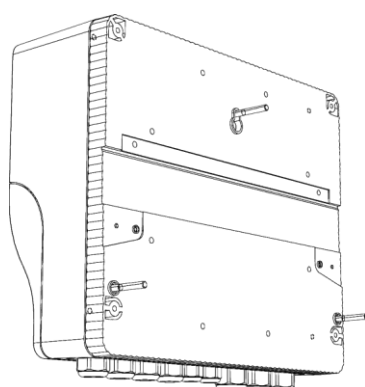
Series EC3050 dimensions and installation



Wall

DIN rail

Handrail



Series EC3055 dimensions

