



Measurement and control technology

for swimming pools

safety is our concern

TOPAX® MC multi-channel controller

The TOPAX® MC is Lutz-Jesco GmbH's multi-channel controller. Its modular design makes it an adaptable and extremely competent partner for all your measurement and control technology requirements. Whether you need to measure chlorine, the pH value, Redox value, conductivity or the pH value four times, the modular design permits any combination.

The outputs can also be selected freely. For instance, you can actuate dosing pumps via an optocoupler or relay and servomotors via a relay or a 20 mA output. The 5-inch or 7-inch colour display shows a user-friendly user interface. User-friendliness is rounded off with a simple touch control and multi-lingual intuitive menu navigation.

Free digital outputs can be configured freely. Irrespective of whether they need to switch following sample water shortage, measuring value exceedance or undercutting or other possible alarm triggers: the configuration is not subject to any limits.

You can chose: You can use the four analogue outputs (0/4 – 20 mA) or the network capability to transfer the measured values to a web browser or a tele-maintenance point. A settable time interval can be used e.g. to issue an automatic reminder for wear-related sensor change.

All data such as measured values, parameter settings, alarms, messages etc. are saved on a USB flash drive.

At a glance

- Modular structure of the inputs and outputs
- Up to four sensors and additionally up to four temperature sensors
- Freely-configurable overviews
- Difference value measurement (e.g. ΔpH)
- Graphical display of the deviation from the desired setpoint
- Up to four reference sets can be configured and loaded via a digital input or time control
- Service entries and sensor change can be saved
- Limit value control (can be used as a DIN contact for partial load operation in accordance with DIN 19643)
- 1 – 9 potential-free relay outputs
- Web server and Modbus protocol via Ethernet
- Trend Display
- Large colour touch-display
- Data is saved on a USB flash drive

Standard versions



TOPAX® MC2 multi-channel controller Display: 5"	40620064	40620065	40620066
Amperometric 3-electrode measuring cell: Free chlorine (0 – 15 mg/l)	•	-	-
CS120 excess chlorine measuring cell Free chlorine (0 – 10 mg/l)	-	•	-
pH single-rod measuring chain: pH value (pH 0 – 14)	•	•	•
Redox single-rod measuring cell: Redox value (-1000 to +1000 mV)	-	-	•
Output modules			
1 x servomotor relay, 1 x servomotor 20 mA with feedback or 0/4 – 20 mA, 2 x digital universal (optocoupler or relay*)	•	•	•

The TOPAX® MC2 can additionally measure two temperatures via two temperature sensors.

Standard versions



TOPAX® MC3 multi-channel controller Display: 7"	40637026	40637027	40637028
Amperometric 3-electrode measuring cell: Free chlorine (0 – 15 mg/l)	•	-	-
CS120 excess chlorine measuring cell Free chlorine (0 – 10 mg/l)	-	-	•
Membrane-covered measuring cell: Free chlorine (0 – 2 mg/l)	-	•	-
pH single-rod measuring chain: pH value (pH 0 – 14)	•	•	•
Redox single-rod measuring cell: Redox value (-1000 to +1000 mV)	•	•	•
Output modules			
1 x servomotor relay, 1 x servomotor 20 mA with feedback or 0/4 – 20 mA, 2 x digital universal (optocoupler or relay*)	•	•	•
Interface			
RS485	•	•	•
Supports TopView 3	•	•	•

The TOPAX® MC3 can additionally measure three temperatures via three temperature sensors.



TOPAX® MC4 multi-channel controller Display: 7"	40647031	40647032	40647033
Amperometric 3-electrode measuring cell: Free chlorine (0 – 15 mg/l)	•	•	-
CS120 excess chlorine measuring cell Free chlorine (0 – 10 mg/l)	-	-	•
Membrane-covered measuring cell: Total chlorine (0 – 2 mg/l)	•	-	-
pH single-rod measuring chain: pH value (pH 0 – 14)	•	•	•
Redox single-rod measuring cell: Redox value (-1000 to +1000 mV)	•	•	•
Conductive conductivity measuring cell Conductivity (0 – 20 mS/cm)	•	•	•
Output modules			
1 x servomotor relay, 1 x servomotor 20 mA with feedback or 0/4 – 20 mA, 2 x digital universal (optocoupler or relay*)	•	•	•

The TOPAX® MC4 can additionally measure four temperatures via four temperature sensors.

* With relay connections, inductive loads need to be suppressed using article no. 78614.
• Standard | - not included

Product range

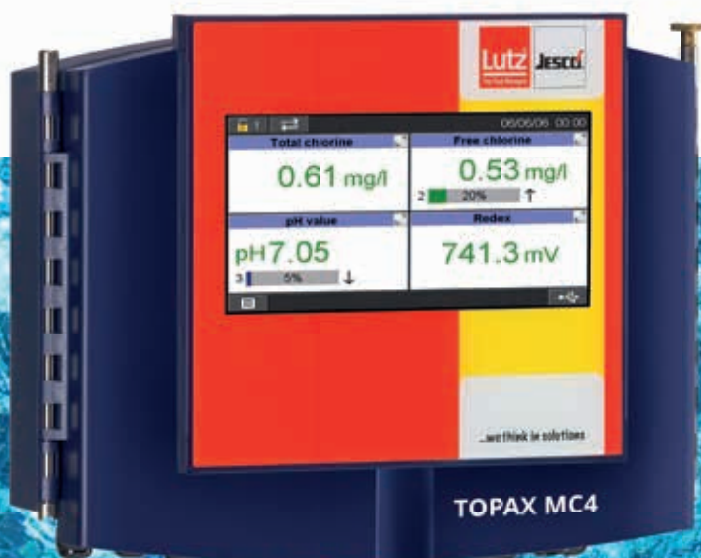


	Multi-channel controller TOPAX® MC2	Multi-channel controller TOPAX® MC3	Multi-channel controller TOPAX® MC4
Software languages	DE, EN, FR, ES, PT, NL, DK, CZ, RU, PL, HU, LT *		
Measuring inputs			
Free chlorine	up to 2 Water parameters (freely-configurable) The TOPAX® MC2 can additionally measure up to two temperatures via two temperature sensors.	up to 3 Water parameters (freely-configurable) The TOPAX® MC3 can additionally measure up to three temper- atures via three temperature sensors.	up to 4 Water parameters (freely-configurable) The TOPAX® MC4 can additionally measure up to four temperatures via four temperature sensors.
Total chlorine			
pH value			
Redox value			
Conductivity			
Error compensation			
pH compensation	for chlorine measurement		
Temperature compensation	for chlorine, total chlorine and pH value		
Output modules			
2 Relay, 230 V AC, 5 A (ohmic load)	up to 4 (freely-configurable)		
2 optocoupler, 48 V DC, 250 mA			
Servomotor 20 mA with feedback or 0/4 – 20 mA			
Servomotor relay with feedback			
2 relay high current, 230 V AC, 8 A (ohmic load)			
Digital universal (optocoupler or relay)			
Analogue recorder outputs			
0/4 – 20 mA	4		
Control behaviour			
2-side controller	•		
On/Off	•		
P, PI, PD, PID	•		
Alarm function			
Alarm relay, freely-configurable	1		
Further freely-configurable digital outputs	◦		
Disturbance variable inputs			
0/4 – 20 mA	1		
Communication			
Ethernet	•		
RS485	◦		
TopView connection			
TopView 3 via RS485/Modbus RTU		optional	optional
TopView 4 via Ethernet/Modbus TCP	•		

* Further software languages upon request | - Standard | ° optionally available

Power supply	
100 – 240 V AC, 50/60 Hz	•
Device type	
wall mounted housing	•
Dimensions	
B x H x T	302 x 240 x 107 mm
Additional functions	
Modular structure of the input modules	•
Modular structure of the output modules	•
Freely-configurable overviews	•
Difference value measurement (e.g. Δ pH)	•
Graphical display of the deviation from the desired setpoint	•
Up to 4 reference sets can be configured and loaded via a digital input or time control	•
Service entries and sensor change can be saved	•
Limit value control (can be used as a DIN contact for partial load operation in accordance with DIN 19643)	•
Web server and Modbus TCP/IP via Ethernet for tele-maintenance	•
Trend Display	•
Large colour touch-display	•
Data is saved on a USB flash drive	•
LED control for water sampling station EASYPRO	3 levels
Password protection 3 levels Software update via USB flash drive	•

* Further software languages upon request | - Standard | • optionally available



Product range

Designed to meet your every need, the EASYPRO system monitors and controls a range of water parameters in your swimming pool.

The TOPAX® MC multi-channel controller installed** in the EASYPRO subjects the water parameters to constant measurement, keeping them within the target range. It enables you to control a large number of actuators and permits easy and intuitive operation.

The multi-coloured LEDs provide an optical warning if the water parameters leave the target range.

Automatic continuous recording of the water parameters and depiction of their development permit simple diagnosis.

Possible measurands depending on the equipment

- Measurement and control of free chlorine
- Measurement of the total chlorine quantity
- Calculation of bound chlorine
- Measurement and control of the pH value
- Measurement and control of the Redox value
- Measurement of the temperature
- Conductivity
- more upon request

EASYPRO MB-C



Measuring inputs

- Measurement and control of free chlorine (0 – 15 mg/l)
- Measurement and control of the pH value (pH 2 – 12)
- Measurement of the temperature (5 – 45 °C)

Output modules (depending on version*)

- 1 x servomotor relay*
- 1 x servomotor 20 mA with feedback or 0/4 – 20 mA
- 2 x digital universal (optocoupler or relay**)

Dimensions

- with cover (W x H x D): approx. 500 x 530 x 117 mm
- without cover (W x H x D): approx. 490 x 490 x 117 mm

EASYPRO ME-C



Measuring inputs

- Measurement and control of the pH value (pH 2 – 12)
- Measurement and control of the Redox value (-1000 to +1000 mV)
- Measurement of the temperature (5 – 45 °C)

Output modules (depending on version*)

- 1 x servomotor relay*
- 1 x servomotor 20 mA with feedback or 0/4 – 20 mA
- 2 x digital universal (optocoupler or relay**)

Dimensions

- with cover (W x H x D): approx. 500 x 530 x 117 mm
- without cover (W x H x D): approx. 490 x 490 x 117 mm

* The water sampling stations mentioned are our standard versions, each water sampling station can be configured according to your own requirements.

** Our standard versions are delivered with the TOPAX® MC multi-channel controller. Use the match code ordering system to order the EASYPRO water sampling stations without the TOPAX® MC.

EASYPRO MC-C



Measuring inputs

- Measurement and control of free chlorine (0 – 15 mg/l)
- Measurement and control of the pH value (pH 2 – 12)
- Measurement of the Redox value (-1000 to +1000 mV)
- Measurement of the temperature (5 – 45 °C)

Output modules (depending on version*)

- 1 x servomotor relay*
- 1 x servomotor 20 mA with feedback or 0/4 – 20 mA
- 2 x digital universal (optocoupler or relay**)

Dimensions

- with cover (W x H x D): approx. 500 x 933 x 128 mm
- without cover (W x H x D): approx. 490 x 900 x 117 mm

EASYPRO MD-C



Measuring inputs

- Measurement and control of free chlorine (0 – 2 mg/l)
- Measurement and control of the pH value (pH 2 – 12)
- Measurement of the Redox value (-1000 to +1000 mV)
- Measurement of the temperature (5 – 45 °C)

Output modules (depending on version*)

- 1 x servomotor relay*
- 1 x servomotor 20 mA with feedback or 0/4 – 20 mA
- 2 x digital universal (optocoupler or relay**)

Dimensions

- with cover (W x H x D): approx. 500 x 933 x 128 mm
- without cover (W x H x D): approx. 490 x 900 x 117 mm

EASYPRO MK-C



Measuring inputs

- Measurement and control of free chlorine (0 – 15 mg/l)
- Measurement and control of the pH value (pH 2 – 12)
- Measurement of the Redox value (-1000 to +1000 mV)
- Measurement and control of conductivity (0 – 20 mS)
- Measurement of the temperature (5 – 45 °C)

Output modules (depending on version*)

- 1 x servomotor relay*
- 1 x servomotor 20 mA with feedback or 0/4 – 20 mA
- 2 x digital universal (optocoupler or relay*)

Dimensions

- with cover (W x H x D): approx. 500 x 933 x 128 mm
- without cover (W x H x D): approx. 490 x 900 x 117 mm

* The water sampling stations mentioned are our standard versions, each water sampling station can be configured according to your own requirements.

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EASYPRO MP-C



Measuring inputs

- Measurement and control of free chlorine (0 – 15 mg/l)
 - Measurement of the total chlorine* (0 – 2 mg/l)
 - Measurement and control of the pH value (pH 2 – 12)
 - Measurement of the Redox value (-1000 to +1000 mV)
 - Measurement of the temperature (5 – 45 °C)
- * Calculating the bound chlorine using the difference value between the total chlorine and the free chlorine

Output modules (depending on version*)

- 1 x servomotor relay*
- 1 x servomotor 20 mA with feedback or 0/4 – 20 mA
- 2 x digital universal (optocoupler or relay**)

Dimensions

- with cover (W x H x D): approx. 500 x 933 x 128 mm
- without cover (W x H x D): approx. 490 x 900 x 117 mm

EASYPRO MG-C



Measuring inputs

- Measurement and control of free chlorine (0 – 2 mg/l)
 - Measurement of the total chlorine* (0 – 5 mg/l)
 - Measurement and control of the pH value (pH 2 – 12)
 - Measurement of the Redox value (-1000 to +1000 mV)
 - Measurement of the temperature (5 – 45 °C)
- * Calculating the bound chlorine using the difference value between the total chlorine and the free chlorine

Output modules (depending on version*)

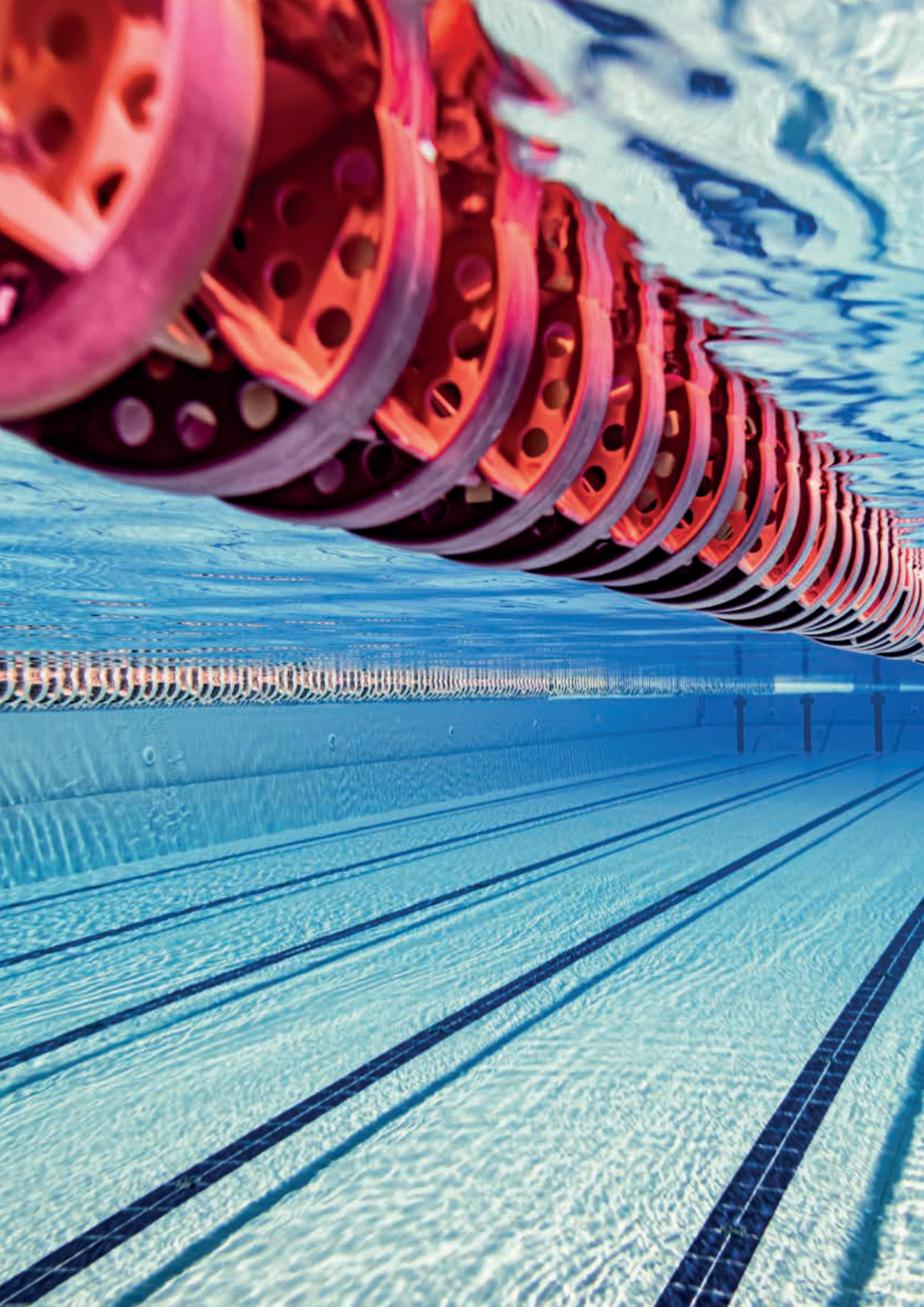
- 1 x servomotor relay*
- 1 x servomotor 20 mA with feedback or 0/4 – 20 mA
- 2 x digital universal (optocoupler or relay**)

Dimensions

- with cover (W x H x D): approx. 500 x 933 x 128 mm
- without cover (W x H x D): approx. 490 x 900 x 117 mm

* The water sampling stations mentioned are our standard versions, each water sampling station can be configured according to your own requirements.

** Our standard versions are delivered with the TOPAX® MC multi-channel controller. Use the match code ordering system to order the EASYPRO water sampling stations without the TOPAX® MC.



Product range

The EASYPRO SMART is the successor to the popular EASYPOOL SMART series. Available in two simple pre-configured versions, the water sampling station comes almost ready-to-use.

The system serves the monitoring and control of various water parameters in your swimming pool. The TOPAX® MC multi-channel controller installed* in the EASYPRO subjects the water parameters to constant measurement, keeping them within the target range. It works directly in conjunction with the peristaltic pumps installed in the water sampling station. Additional actuators can be actuated.

Automatic continuous recording of the water parameters and depiction of their development permit simple diagnosis.

Possible measurands depending on the equipment

- Measurement and control of free chlorine
- Measurement and control of the pH value
- Measurement and control of the Redox value
- Measurement of the temperature
- Measurement of conductivity

EASYPRO SMART CP



Measuring inputs

- Measurement and control of free chlorine (0 – 15 mg/l)
- Measurement and control of the pH value (pH 2 – 12)
- Measurement of the temperature (5 – 45 °C)

Output modules (depending on version*)

- 3 x relay, 1 x optocoupler

Dimensions

- (W x H x D): approx. 454 x 454 x 167 mm

EASYPRO SMART RP



Measuring inputs

- Measurement and control of the Redox value (0 – 1000 mV)
- Measurement and control of the pH value (pH 2 – 12)
- Measurement of the temperature (5 – 45 °C)

Output modules (depending on version*)

- 3 x relay, 1 x optocoupler

Dimensions

- (W x H x D): approx. 454 x 465 x 167 mm

* The water sampling stations mentioned are our standard versions, each water sampling station can be configured according to your own requirements.

EASYPRO SMART CPL

Measuring inputs

- Measurement and control of free chlorine (0 – 15 mg/l)
- Measurement and control of the pH value (pH 2 – 12)
- Measurement and control of conductivity (0 – 20 mS/cm)
- Measurement of the temperature (5 – 45 °C)

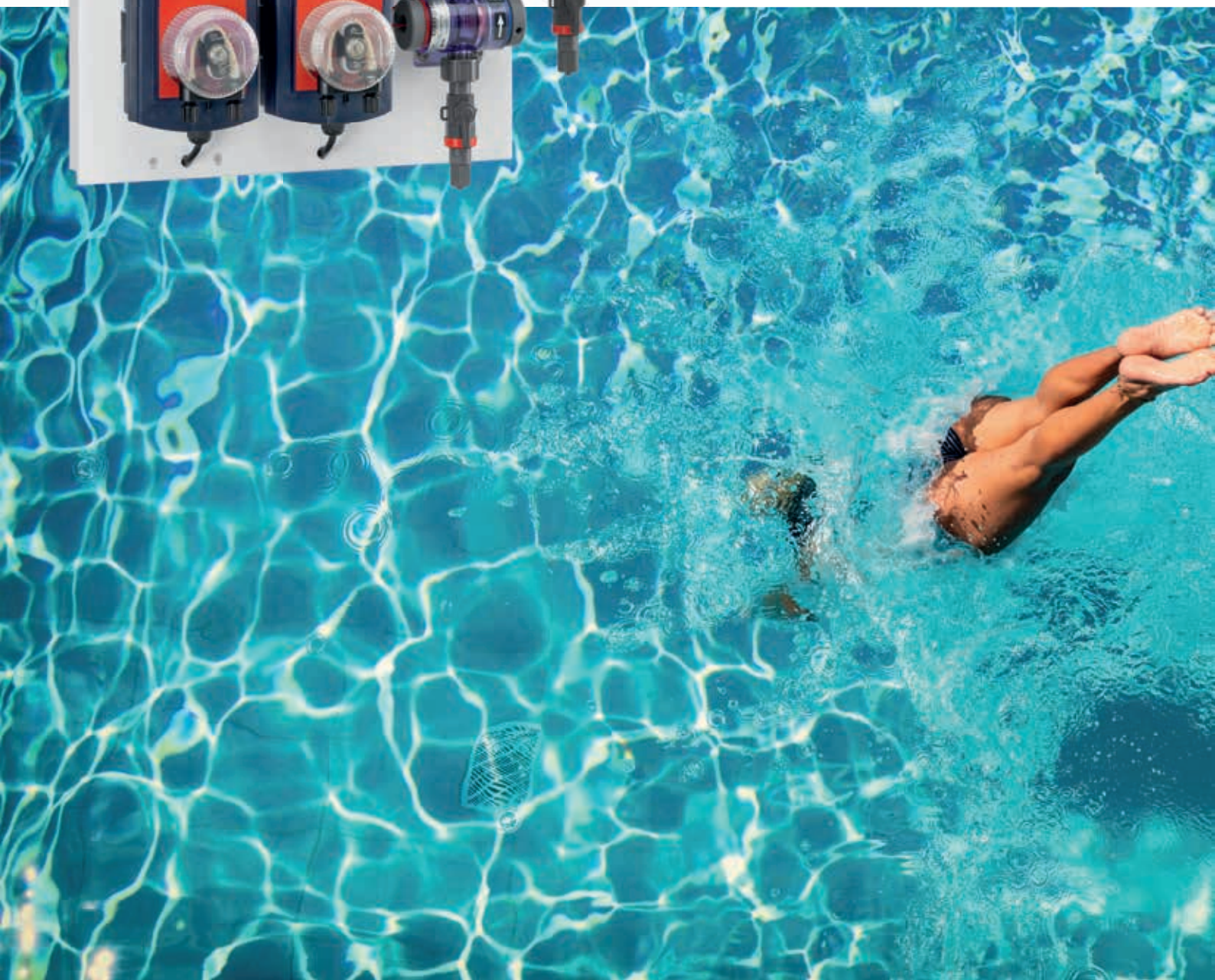
Output modules (depending on version*)

- 3 x relay, 1 x optocoupler

Dimensions

- (W x H x D): approx. 454 x 465 x 167 mm

* The water sampling stations mentioned are our standard versions, each water sampling station can be configured according to your own requirements.



Product range

The EASYPRO COMPACT combines all the components of the EASYPRO MC-C on a small baseplate (W: 454 mm, H: 496 mm). The highly compact structure of the device is achieved by the location of the water flow and the sensor recording (except for chlorine) within the station.

The measuring cells are characterised by their high-quality and measurement accuracy. In combination with the TOPAX® MC controller this enables the comprehensive measurement, display, control and recording of all important water parameters.

The wall bracket included in the scope of delivery enables simple installation. For inspection, maintenance and service purposes, the station can be opened in a manner similar to a cupboard door; and thus remains easily accessible.

EASYPRO COMPACT



Measuring inputs

- Measurement and control of free chlorine (0 – 15 mg/l)
- Measurement and control of the pH value (pH 2 – 12)
- Measurement and control of the Redox value (0 – 1000 mV)
- Measurement of the temperature (5 – 45 °C)

Output modules (depending on version*)

- 2 x relay, 2 x optocoupler

Dimensions

- (W x H x D): approx. 454 x 496 x 161 mm

Overview of the control outputs

Output modules	Selectable products
Servomotor relay	■ Chlorine gas regulation valve C 7700 3-point step
Servomotor 20 mA with feedback or 0/4 – 20 mA	■ Dosing pumps MAGDOS LA, LP, MEMDOS LA, LP, MEMDOS SMART LP, MEMDOS SMART LAX, MEMDOS SMART LPX ■ Chlorine gas regulation valve C 7700 20 mA ■ Flow-trough chlorine electrolysis systems TECHNOSTAR
Relay*	■ Dosing pumps MAGDOS LB, LD, LK, LP, LDp, MEMDOS LB, LA, LP, MEMDOS SMART LB, LD, LK, LP, MEMDOS SMART LDX, MEMDOS SMART LPX ■ Peristaltic pumps ■ Flow-trough chlorine electrolysis systems TECHNOMAT PS
Relay high current* (can be configured via the Matchcode ordering system)	■ Dosing pumps MAGDOS LB, LD, LA, LK, LP, LDp, MEMDOS LB, LA, LP, MEMDOS SMART LB, LD, LK, LP, MIDIDOS E, MINIDOS A, MEMDOS SMART LDX, MEMDOS SMART LPX ■ Peristaltic pumps ■ Flow-trough chlorine electrolysis systems TECHNOMAT PS
Optocoupler	■ Dosing pumps MAGDOS LB, LD, LK, LP, LDp, MEMDOS LP, MEMDOS SMART LD, LK, LP, MEMDOS SMART LDX, MEMDOS SMART LPX ■ CHC dosing stations EASYCHLORMIX, SAFETYCHLORMIX

* With relay connections, inductive loads need to be suppressed using article no. 78614.

Buffer solutions

- pH value: pH 6.80 and 9.27
- Redox value: 468 mV
- Electrolytes for diaphragm covered measuring cells



Photometer

Photometers serve the adjustment of measurement systems through reference measurements. Systems with multiple measuring cells need simple and quick reference measurements.

The Lutz-Jesco photometer combines this requirement with high measurement accuracy and a robust structure.

Functions

- For free chlorine and pH value
- Internal memory for 16 data sets
- Automatic switch off
- Real-time clock and date
- Adjustable functional display
- Illuminated display
- Water-tight (analogue IP68, 1 hour at 0.1 metre)

TopView

TopView computer software is used to control networked TOPAX® systems via a PC, which means you can remotely monitor and adjust the control unit. It also generates a central log of the measured values. TopView is tailored entirely to your wishes as the program can be used for different stages of system development.

Functions

- Display, operation and monitoring of the TOPAX® MC controller
- Connection of up to 15 devices
- Connection for digital assemblies
- Selectable parameters for archiving
- Setting of the control parameters from the PC
- Display and storage of all alarms issued
- Journal



Sensors

Lutz-Jesco sensors are characterised by high quality, a robust build and good price-performance ratio. Intensive research and many years of practical experience mean we have the skills to successfully deal with the measurement tasks you set us. We provide all measuring procedures for chlorine measurement, enabling you to select the procedure which matches your needs.

Large variety of sensors

- Open amperometric measuring cells
The inexpensive solution for all halogens and oxidising chemicals, with automatic electrode cleaning
- Open potentiostatic measuring cells
With automatic electrode cleaning, selective measuring system without zero drift, robust compact design
- Membrane-covered potentiostatic measuring cells
High selectivity, internally temperature compensated
- pH and Redox single-rod measuring cells
In glass, plastic and pressure-resistant versions
- Conductivity measuring cells (salt content)
As a conductive measuring method
- Temperature sensors
As Pt100 resistance thermometer



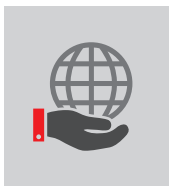
Fittings

The chlorine measuring cells, pH and Redox single-rod measuring cells, temperature sensor and flow control have been combined into a single unit to facilitate integration into the system. We provide a wide range of different fittings, so that you always have the correct solution for connecting the sensors into your process.

Versions

- Throughflow fittings
Can be installed directly in the pipe line or in the bypass
- Immersion fittings
For installation in tanks or boilers
- Mounting blocks
For installation in the bypass to the pipe lines

Service

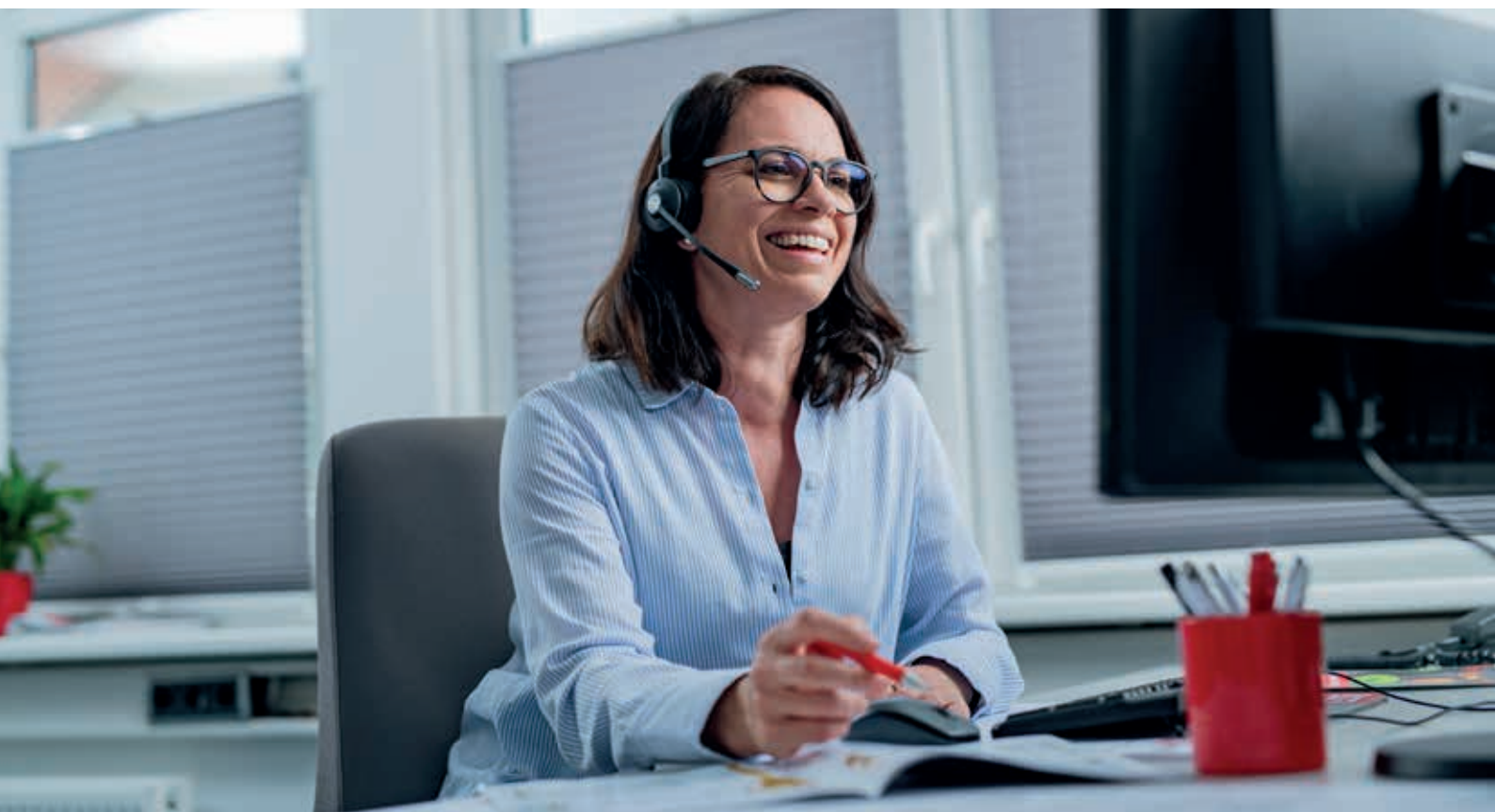


Lutz-Jesco is available to you as a reliable partner with a worldwide network of competent representatives for all service questions relating to our products.

Customer-oriented action extends from advice to sales and after-sales service. To ensure that you are on the safe side, we offer you not only high-quality products but also comprehensive services.



Technical Support | Commissioning | Maintenance | Servicing | Repairs in the factory | Material Service | Customer Training courses



**Do you have questions about our services?
Our experts will be happy to advise you:**

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