# Multi-channel controller **TOPAX® MC**


## A versatile partner

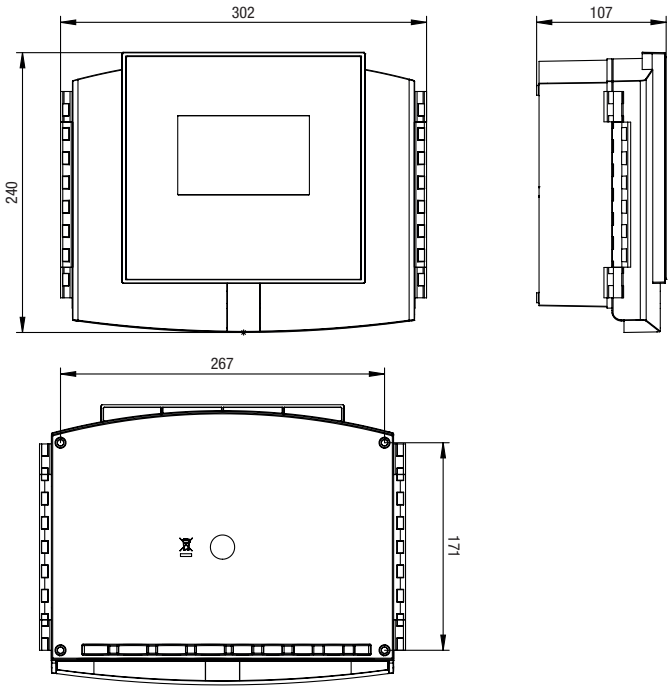
The **TOPAX® MC** is Lutz-Jesco GmbH's latest multi-channel controller. Its modular design makes it an adaptable and extremely competent partner for all your measurement and control technology requirements. Whether you need to measure chlorine, the pH value, Redox value or the pH value four times, the 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 high-resolution 5 inch colour display has a user-friendly operating interface. User-friendliness is rounded off with a simple touch control and multi-lingual intuitive menu navigation.

**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.

## Dimensions

All dimensions in mm




Dosing | *Liquids*
Conveying | *Gases*
Control | *Systems*

# Technical data and accessories

| TOPAX® MC | | | |
|---|---|---|---|
| Housing dimensions (W x H x D) | | mm | 302 x 240 x 107 |
| Voltage supply | | | 100 – 240 V AC, 50/60 Hz |
| Power consumption | | W | max. 20 |
| Analogue outputs for remote transmission | | | 4 x 0/4 – 20 mA, working resistance max. 500 Ω |
| Disturbance variable input | | mA | 0/4 – 20 |
| Interfaces | | | Ethernet TCP/IP or RS485 Modbus RTU (optional) |
| Protection class | | | IP65 |
| Ambient temperature | | °C | -5 to +45 (no exposure to direct sunlight) |
| Control characteristic | | | P, PI, PID or PD behaviour,<br>control direction selectable with disturbance variable feed forward,<br>2-side control selectable |
| **Sensor inputs (depending on version)** | | | |
| Number of sensor inputs | | | up to 4* |
| Free chlorine | Amperometric 3-electrode measuring cell with potentiostat (DMZ3.1) | mg/l | 0 – 15 (dependant on the measuring cell transconductance) |
| | CS120 excess chlorine measuring cell | mg/l | 0 – 10 (dependant on the measuring cell transconductance) |
| | Diaphragm-covered measuring cell | mg/l | 0 – 10 (dependant on the measuring cell) |
| Chlorine dioxide | Amperometric 3-electrode measuring cell with potentiostat (DMZ3.1) | mg/l | 0 – 15 (dependant on the measuring cell transconductance) |
| | CS120 excess chlorine measuring cell | mg/l | 0 – 10 (dependant on the measuring cell transconductance) |
| | Diaphragm-covered measuring cell | mg/l | 0 – 2 (dependant on the measuring cell) |
| Total chlorine | Diaphragm-covered measuring cell | mg/l | 0 – 10 (dependant on the measuring cell) |
| pH value | pH single-rod measuring cell | pH | 0 – 14 (dependant on the single-rod measuring chain) |
| Redox value | Redox single-rod measuring cell | mV | 0 – 1000 (dependant on the single-rod measuring chain) |
| Conductivity conductive | Conductivity measuring cell (k=1) | mS/cm | 0 – 100 (dependant on the measuring range) |
| Temperature | Pt100 | °C | -10 to +90 |
| **Output modules (depending on version)** | | | |
| Servomotor relay | | | 2 x 230 V AC, 5 A (ohmic resistive load) |
| | | kΩ | Potentiometer feedback: 1 – 10 |
| Servomotor 20 mA | | | Constant 0/4 – 20 mA output |
| | | | Servomotor with 20 mA feedback |
| Relays | | | 2 x 230 V AC, 5 A (ohmic resistive load) |
| Optocoupler | | | 2 x 80 V DC, 5 mA |

* An additional temperature sensor can be connected per sensor input.

**Switching device interference suppression module**

- -20 to +70 °C
- 22 × 27 × 11 mm
- 50 W (VA)

**Ethernet cable**

- CAT5, 2 m PUR with M12x1 plug
- 4-pin, D-coded with RJ45 plug



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