

## TOPAX® L 4 Controller - Technical Data Sheet

- Chlorine dioxide measuring and controller device.
- Temperature controller device.

### Measuring unit

Measurements:	Free chlorine content, temperature
Measuring range:	0.00 - 4.00 mg/l Cl <sub>2</sub> Chlorine dioxide measurement -30 ... +140 °C Temperature measurement
Display:	Measurement values with relative units. Status messages, sensors. Calibration, controller and alarm.
Temperature compensation:	Either manual or automatic, Pt 100 measuring principle.



### Controller unit

Switch points:	2 switch points with adjustable effective direction setting
Controller options	ON/OFF controller, with optional hysteresis Proportional (P) controller - pulse-pause, pulse- frequency or continuous controller Proportional integral (PI) controller - pulse-pause, pulse- frequency or continuous controller
Hysteresis:	freely adjustable within the metering range
Proportional gain KP:	freely adjustable within the metering range
Reset time TN	0 - 2000 sec
Minimum impulse:	0.1 - 9.9 sec
Pulse + pause time:	02 - 99 sec
Impulse frequency:	100 - 7200 impulses/h
Switch-on delay:	0 - 200 sec
Alarm function:	minimum and maximum threshold

### Order item no.: TOPAX® L 4, panel mounted device

Input supply voltage :	Item order no.
230 V AC, + 6 %, - 10 %, 50 ... 60 Hz	40500121
130 V AC, 1 Ph, 50 ... 60 Hz	40500131
24 V AC, 1 Ph, 50 ... 60 Hz	40500151

### Order item no.: TOPAX® L 4, wall mounted device

Input supply voltage :	Item order no.
230 V AC, + 6 %, - 10 %, 50 ... 60 Hz	40500101
130 V AC, 1 Ph, 50 ... 60 Hz	40500111
24 V AC, 1 Ph, 50 ... 60 Hz	40500141

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### Technical Specification

Feature	TOPAX® L Panel mounted device	TOPAX® L Wall mounted device
Casing material	Noryl	ABS
Device sizes	96 x 96 x 127 (150) mm (WxHxD) for panel mounting	165 x 160 (190) x 80 mm (WxHxD) for wall mounting
Weight	0.8 kg	1.2 kg
Connectors	Push-screw terminal for up to maximum 1.5 mm <sup>2</sup> section wiring	Spring-load terminal for up to maximum 1.5 mm <sup>2</sup> section wiring
Protection classes	IP 54 (front end), IP 30 (casing)	IP 65
Supply voltage	230 V AC, + 6 %, - 10 %, 50 ... 60 Hz 130 V AC, 1 Ph, 50 ... 60 Hz 24 V AC, 1 Ph, 50 ... 60 Hz	230 V AC, + 6 %, - 10 %, 40 ... 60 Hz 130 V AC, 1 Ph, 50 ... 60 Hz 24 V AC, 1 Ph, 50 ... 60 Hz
Power input	10 VA	10 VA
Internal safety fuses	None	230 V: 63 mA delayed-action fuse 110V: 125 mA delayed-action fuse 24 V: 800 mA semi delayed-action fuse
Display	Backlit LCD display, two 16 character text lines. Displays measurement values with relative units and additional temperature display. Relay state also displayed.	
Input 1 / free chlorine	Potentiostat for direct-flow 3 electrode system, measurement range 0.00 ... 4.00 mg/l chlorine (free chlorine, Cl <sub>2</sub> ), accuracy < 0.1 mV	
Input 2 / temperature	Temperature, measurement range -30.0 ... +140.0 °C, Pt 100, dual lead connection, accuracy < 0.01 °C	
Digital input	External controller stop or water deficiency sensor. Controller stop (break contact element).	
Analogue output	One 0/4 ... 20 mA, electrically isolated, configurable, maximum 500 Ohm apparent ohmic resistance, accuracy < 0.1 mA.	
Relay outputs	3 potential-free dry contacts, freely configurable, 2 A, 250 V, max. 550 VA for control (2) and alarm alerts (1).	
Interface options:	RS485, baud rate 9600, data format 8Bit, 1 start and 1 stop bit, no even parity	
Controller options	One on-off (with hysteresis) proportional (P) or proportional integral (PI) controller, either a pulse-pause or pulse-frequency or continuous (0/4 ... 20 mA) output controller, allocated to chlorine measuring, two limit values with timing relay for alarm alerts.	
Switch-points	Two dual switch points, freely adjustable within the metering range	
Alarm functions	Two, with maximum and minimum limit values and time delay	
3 potential-free dry contacts contact load	2 A/ 250 V, max. 550 VA ohmic resistive load (with RC-protective circuit)	
Operating temperature	0 - 50°C	
Storage temperature	-20 - +65°C	
Atmospheric moisture	0 - 90 % non condensing	
EMC	Compliant to DIN standards EN 50081 -1 and 50081 -2	
Conformity mark	CE	