

Important values under control

The TOPAX® DX controllers can be used in a wide range of applications due to their modular design. The TOPAX® DX can satisfy all the requirements for optimum water treatment, since numerous sensors for measuring water parameters can be directly connected.

The large colour TFT monitor displays all information to the operator in clear text. The TOPAX® DX is easy to understand and operate due to the clearly laid out menu navigation, which can be switched to different languages. An installed online help can be selected from the menu by pressing a single button.

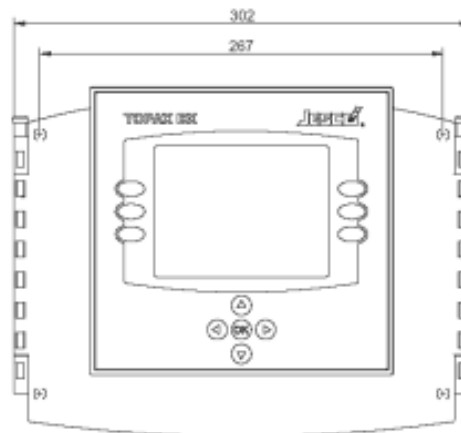
The measured data and the metering data can be displayed in the installed screen writer at different zoom levels and can be saved on an integrated multimedia card. This card can be read on a PC at any time for archiving.

During start-up, the installer can allocate the sensors in clear text to the many different output signals and freely configure the TOPAX® DX. Following the configuration the complete connection diagram is displayed and saved in the logbook.

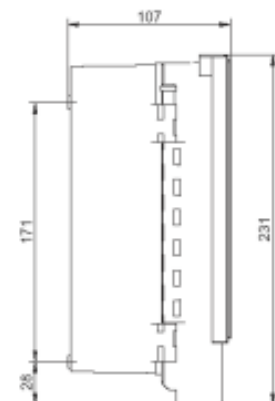


In brief

- Large TFT monitor
- Installed screen writer
- Display of the available disinfecting power depending on the pH value
- Controlled start-up
- Logbook function, saves all events such as calibration data, etc.
- Plausibility check during calibration
- Display of the quality of the single-rod measuring chain during calibration
- pH value compensation of the chlorine value
- Temperature compensation of the pH value
- Sensor monitoring, alarm if sensor fails
- Clear text operator guidance
- Contextual online help
- Actuation and control of systems to reduce the bonded chlorine and to meter brine
- Electrically isolated current outputs
- Electrically isolated inputs
- Autoadaptation
- Eco mode
- Real time clock with two separate timers for automatic actuation of ECO mode
- Control of flocculant dosage
- "DIN contact"



Dimensional Figure



Total Fluid Management | Metering Transfer Chem Feed

Technical Data

Power supply voltage	90 to 264 VAC, short-circuit and overload-proof	
Power consumption	24 VA	
Housing dimensions	302x231x107 mm (WxHxT) wall-mounted housing	
Display	Colour display with graphics capabilities, 5.7 inches, 320W * 240H pixel, RGB, background lighting	
Measurement inputs	Inputs for free chlorine, pH value, REDOX potential, temperature, 0/4-20 mA (total chlorine) and 0/4-20mA (% salt content)	
Control characteristics for 2 inputs (free chlorine and pH value)	P, PI, PD or PID performance, fixed set point control, control direction can be selected with feed forward control 2-side control	
	4-20 mA (total chlorine) input for measuring and controlling the total chlorine with feed to the measuring cell (24 VDC) and controlling the bonded chlorine, 4-20 mA (% salt content) input for measuring and controlling the conductivity	
Control characteristics	P, PI, PD or PID performance, fixed set point control	
Measurement input, free chlorine (input 1)	Open amperometric measuring cell with mechanical cleaning	Adjustable measurement range 0 to 1.00 mg/l 0 to 2.00 mg/l 0 to 5.00 mg/l 0 to 10.00 mg/l Connection by terminals measuring cell
	Potentiostat	Adjustable measurement range 0 to 1.00 mg/l 0 to 2.00 mg/l
	Membrane-covered	Measuring cell 20 mA type Measurement range depending on measuring cells
Measurement input pH value (input 2)		Measurement range pH 0 to 14 Connection by BNC connector for single-rod measuring chains or by terminals with ferrule max. 1.0 mm
Measurement input REDOX potential (input 3)		Measurement range 0 to 1000 mV Connection by BNC connector for single-rod measuring chains or by terminals with ferrule max. 1.0 mm ²
Measurement input temperature (input 4)	Sensor: Pt 100	Measurement range -10 to 50 °C Two-conductor connection by terminal, with ferrule max. 1.0 mm ²
Variable disturbance input	0/4 to 20 mA programmable Intervention of the variable disturbance 0.1 to 10 x amplification	
Measurement input total chlorine	Membrane-covered measuring cell	20 mA type Measurement range depending on measuring cells
Measurement of conductivity	Conductive with separate measured value amplifier	20 mA type Measurement range depending on measuring amplifier
Digital inputs	Preliminary alarm, metering pump 1 Main alarm, metering pump 1 Preliminary alarm metering pump 2 Main alarm, metering pump 2 Filter rinsing disconnection of the control function without alarm Low measurement water disconnection of the control function with alarm (external disconnection)	
Control outputs	Electronic output (optocoupler)	- 48 VDC; 250 mA (Pulse frequency 10 to 200 pulses/min)
	Relay output	- ON/OFF (Pulse frequency 10 to 100 pulses/min) - Pulse length 10 to 120 seconds - 3-point step output with position feedback value of the potentiometer 1 to 10 kohm
	Continuous output	- 0/4 to 20 mA, max. load 500 ohm
Alarm output	Relay output as collective alarm for the measured variables, free and bonded chlorine, pH value, REDOX potential, temperature and conductivity as potential-free changeover contact	
	Measured value alarm	Min. and max. alarm freely adjustable. Time delay adjustable: max. 60 minutes
	Safety disconnection	To prevent overmetering (Y alarm) time delay adjustable: max. 120 minutes
Current outputs to the remote transfer for the measured variables, free and bonded chlorine, pH value, REDOX potential, temperature and conductivity	0/4 to 20 mA, spread possible; max. load 500 ohm potential-free	
	Sensible spread	>50 % during measurement input, free chlorine and 0/4 to 20 mA >10 % during measurement input, pH value and REDOX potential
Computer interface	RS 485	
Load capacity of the relays	230 V / 50 Hz, 3A	
Protection class IP	65 with closed screw connections	
Ambient temperature	5 °C to +45 °C	