

Product Information Water Sampling Station PM 01

Water Values – Valuable Water

In modern swimming pools and waterworks, the water quality is ensured by means of automatic measuring and control systems. The quality of the data logging is the key foundation for good water quality. The controlled release of chemical disinfection agents into the water circulation system must be in safe and reliable hands.

A Consolidated Solution

The water sampling station PM 01 collects the data for free chlorine, pH values, redox potential, temperature and conductivity (optional). An electronic controller from the TOPAX series controls the water quality by using the incoming measuring signals. All of the elements that are necessary for measuring and controlling are combined at the water sampling station. The sensors for measuring the water values are mounted in a transparent multi-function instrument block. The flow conditions at the sampling station provide for stable values.

Everything Under One Roof

Free chlorine is measured using a potentiostatic excessive chlorine cell (a three electrode system, gold-KC1-stainless steel). Zero calibration is not required. Rotating balls provide for the continuous cleaning of the electrodes. The measuring cell requires a water flow of approx. 45 l/hr. The sensors that are used for measuring the pH value, redox potential, and temperature are mounted depending on application.

A hydrostatic flow regulation of the water flow that is to be measured guarantee a constant measuring condition.

In short

- Measurement of free chlorine, pH value, Redox, temperature and conductivity (optional)
- Hydrostatic flow regulation
- Flow monitor
- Potentiostatic chlorine measurement
- Zero calibration is not required
- Transparent construction
- TOPAX controller arbitrary
- Integrated Y-strainers



Technical data

Free chlorine	potentiostatic chlorine measuring cell	measuring range	0...2 mg/l *
	material of construction	measuring electrode	gold
		counter electrode	stainless steel
		reference electrode	electrolyte jelly (KCl)
pH value	pH- single-rod measuring chain	measuring range	pH 0...14
Redox-measuring	redox / ORP single-rod measuring chain	measuring range	0...1000 mV*
Sample water consumption			approx. 45 l/hr
Pressure at inlet			0.2...6 bar, Outflow sample water must be able to run off
Temperature			max. 40 °C
Connection Inlet			hose liner ø 6 mm Male
Connection Outlet			hose liner ø 10 mm Male
Dimensions (W x H x D)			490 x 900 x ~130 mm

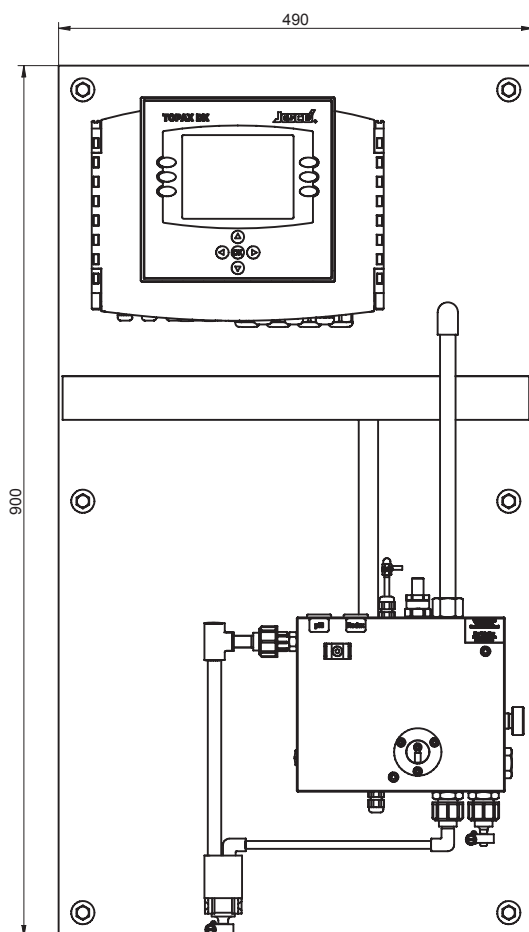
* in combination with controller TOPAX DX

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Model variants

Product name	Description	Order no.
Water sampling station PM 01 for the measurement of free chlorine, pH value and Redox-potential (ORP)	basic model (with sensors, without controller TOPAX DX)	42200001
Water sampling station PM 01T for the measurement of free chlorine, pH value, Redox-potential (ORP) and temperature	basic model plus temperature sensor Pt 100	42200002
Water sampling station PM 01L for the measurement of free chlorine, pH value, Redox-potential (ORP) and conductivity	basic model plus conductivity measuring cell and amplifier	42200004
Water sampling station PM 01LT for the measurement of free chlorine, pH value, Redox-potential (ORP), temperature and conductivity	basic model plus temperature sensor Pt 100 and conductivity measuring cell and amplifier	42200003

Dimensional figure



All measurements are given in mm

Scope of Delivery

Following functional elements and accessories are scope of delivery:

- Strainer (0.5 mm mesh)
- DN 2.5 needle valve
- Standpipe with overflow and stripper
- Grounding pin
- Swing-type drain for taking of sample water
- Flow monitor (float element and reed contact) for switching-off of controller functions at lack of sample water
- Potentiostatic chlorine measuring cell
- Balls for electrode cleaning
- pH single-rod measuring chain PE 110
- Redox (ORP) single-rod measuring chain ME 110
- connection cable for all sensors
- 1 set of buffer solutions for calibration

Tubing and wiring are factory-installed.

Accessories

In addition to the water sampling station, the following accessories are available for operation:

Description	Order no.
Filter (80 µm) for Sample Water in transparent housing, hose connections d 6/12 with support brackets	23733816
Water Sampling Device Type A G 1/2, ball valve, Hose 6/12, PVC/FPM	23733813
Tubing 6/12, PVC transparent perlon reinforced	97120
Swimming Pool Photometer measuring parameters: free, bound and total chlorine, chlorine dioxide, pH value, cyanuric acid	23800003