

## Product Information Water Sampling Station PM 04

### Water Values – Valuable Water

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

### Compact Solution – Clear Results

The water sampling station PM 04 collects the data for free chlorine, chlorine dioxide, pH values, redox potential, and temperature depending on the installed features. The water quality is controlled by a TOPAX L controller. 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 or chlorine dioxide 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/h. The sensors that are used for measuring the pH value, redox potential, and temperature are mounted depending on application.

### In short

- Measurement of free chlorine or chlorine dioxide with potentiostatic measuring cell
- Further parameters - pH value, redox and temperature (each as per model)
- Hydrostatic flow regulation
- Flow monitor
- Zero calibration is not required
- Compact and transparent construction



### Technical data

Free chlorine or chlorine dioxide	potentiostatic chlorine measuring cell measuring range		0 ... 4 mg/l (Cl <sub>2</sub> )* 0 ... 2 mg/l (ClO <sub>2</sub> )*
	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		up to +1000 mV*
Sample water consumption			approx. 45 l/h
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)			320 x 730 x ~100 mm

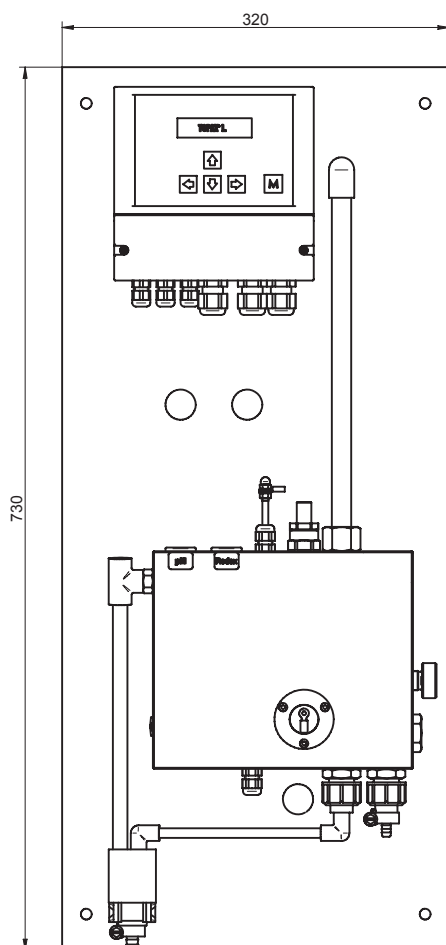
\* depending on choosed TOPAX controller

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### Model variants

Product name	Description	Order no.
Water Sampling Station PM 04 for measuring free chlorine or chlorine dioxide	basic model (without TOPAX controller)	42200010
Water Sampling Station PM 04 for measuring free chlorine or chlorine dioxide and pH value	basic model with pH single-rod measuring chain PE 110	42200011
Water Sampling Station PM 04 for measuring free chlorine or chlorine dioxide, pH value and temperature	basic model with pH single-rod measuring chain PE 110 and temperature sensor Pt 100	42200012
Water Sampling Station PM 04 for measuring free chlorine or chlorine dioxide, pH value and redox potential	basic model with pH single-rod measuring chain PE 110 and redox/ ORP single-rod measuring chain ME 110	42200013
Water Sampling Station PM 04 for measuring free chlorine or chlorine dioxide, pH value, redox potential and temperature	basic model with pH single-rod measuring chain PE 110, redox/ ORP single-rod measuring chain ME 110 and temperature sensor Pt 100	42200014

### Dimensional figure



All dimensions in mm

### Scope of Delivery

Following functional elements are mounted on water sampling station:

- Strainer (0.5 mm mesh)
- DN 2.5 needle valve
- Standpipe with overflow and stripper
- Grounding pin
- Swing-type drain hose 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 with gold electrode, stainless steel electrode and reference electrode
- Balls for electrode cleaning

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