Data sheet

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>>PHOSPHAX *sigma*

Total phosphorus - orthophosphate

Applications

The PHOSPHAX ∑ *sigma* process photometer is designed for determination of the total phosphorus content and the orthophosphate concentration.
Polyphosphates and some organic phosphorus compounds are hydrolysed to orthophosphate by boiling in strong acid solution, and stable phosphorus compounds are reacted by sodium peroxydisulphate. The measured values are indicated via a liquid crystal display (graphics display) as mg/l total P and mg/l orthophosphate.
Solid-containing samples require to be homogenised with SIGMATAX 2 before entering the process photometer.

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>> PHOSPHAX *sigma*

Total phosphorus - orthophosphate

Technical data

PHOSPHAX *sigma*	
Measuring principle:	Reduction method, derived from DIN EN 38405 D11
Evaluation:	Photometric with IR LED photometer
Measuring range:	0.01 – 0.50...5.00 mg/l P total phosphorus in 0.1 mg increments 0.01 – 0.50...5.00 mg/l P orthophosphate (in 0.1 mg increments)
Measuring interval:	T_{100}= 10 min.
Calibration:	Automatic at selectable intervals
Sample requirement:	30 ml per hour
Reagent supply:	Approx. 3 months
Standard supply:	Approx. 1 year
Maintenance interval:	3 months
User maintenance:	Approx. ½ hour per week, typically
Outputs:	2 current outputs: 0/4...20 mA, max. 500 Ω 2 limit value contacts: floating, 24 V 1A Interface for DIN measuring bus 66348
Ambient temperature:	+5° C to +40° C
Power supply:	230 V AC ± 10%, 50 - 60 Hz
Power consumption:	Approx. 310 VA (including cooler)
Dimensions: (W x H x D)	550 mm x 1190 mm x 390 mm (including cooler)
Mass:	43 kg
Other features:	Automatic calibration, auto-cleaning facility, data logger, graphics monitor with curve display

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