



Phosphax sigma Total Phosphorus and ortho-Phosphate analyzer, 0.01-5.0 mg/L Total P, 0.01-5.0 mg/L ortho-Phosphate

Product #:

LPV341.99.10000 **Hazardous**

AED Price:

Contact Hach



PHOSPHAX sigma - the P-analyser for in-house measurement with digestion

The process photometer is designed for determination of the total phosphorus content and the orthophosphate concentration (0.01 - 5 mg/L). Analysis is based on the DIN EN ISO 6878 Phosphormolybdenum blue method.

Polyphosphates and some organic phosphorus compounds are hydrolyzed to orthophosphate by boiling in strong acid solution, and stable phosphorus compounds are reacted by sodium peroxydisulphate. The chemo-thermic reaction principle ensures complete breakdown within a few minutes. The measured values are indicated via a liquid crystal display (graphics display) as mg/L total P and mg/L orthophosphate. Solid-containing samples must be homogenized before entering the process photometer.

Measurement of Total Phosphorus and Orthophosphate in 1 instrument

Fast measurement in just 10 minutes

Complete digestion

Low consumption of reagents

Automatic cleaning and calibration

Specifications

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|-------------------------------|--------------------------------------------------------------------------------------|
| Application: | Wastewater |
| Calibration method: | automatic, intervals selectable |
| Current output: | 0/4 to 20 mA max. 500 Ω; 2 current outputs |
| Dimensions (H x W x D): | 1190 mm x 550 mm x 390 mm |
| Interface: | Service Interface: RS 232 with bus capability (option) |
| Maintenance requirements: | 1 h/month |
| Measuring interval: | 10 min |
| Measuring principle: | Photometric method, according to DIN EN ISO 6878:2004-09 (reduction- / blue- method) |
| Measuring range: | 0.01 - 5 mg/L for ortho-phosphate and total phosphorus |
| Operating temperature range: | 5 - 40 °C |
| Parameter: | Ortho & Total PO ₄ -P |
| Power requirements (Hz): | 50 Hz |
| Power requirements (Voltage): | 230 V AC |

| | |
|-------------------|-----------------------------------------------------------------------------|
| Reagent: | shelf-life of reagents 3 months , standard solution 6-12 months |
| Relays: | 24 V 2 relays, 1 A, potential-free |
| Sample volume: | 100 mL/h |
| Service interval: | 3 months |
| Warranty: | 24 months |
| Weight: | 43 kg excl. reagents |
| What's included?: | Phosphax sigma analyzer, refrigerator, set of reagents, accessories, manual |

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