



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

**Product #:**

**LPV341.99.10020** **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 EN 1189 Phosphomolybdenum 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. PROFIBUS DP-interface integrated.

#### **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**

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### **Specifications**

Application:	Wastewater
Calibration method:	automatic, intervals selectable
Communication capabilities:	Profibus DP
Current output:	0/4 to 20 mA max. 500 $\Omega$ ; 2 current outputs
Dimensions (H x W x D):	1190 mm x 550 mm x 390 mm
Interface:	Service Interface: RS 232, PROFIBUS DP
Maintenance requirements:	0.5 h/week
Measuring interval:	10 min
Measuring principle:	Photometric method, according to DIN 38405 D11 (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 <sub>4</sub> -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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