



## Phosphax sigma Total Phosphorus analyzer, 0.01-5.0 mg/L Total P

**Product #:**

**LPV341.99.20000** **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 (0.01-5 mg/L). Analysis is based on the EN 1189 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 P<sub>tot</sub>. Solid-containing samples must be homogenised before entering the process photometer.

**Fast measurement of Total Phosphorus in just 10 minutes**

**Complete digestion**

**Low consumption of reagents**

**Automatic cleaning and calibration**

**Without sample filtration**

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### Specifications

|                               |  |
|-------------------------------|--|
| 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 38405 D11 (reduction- / blue- method) |
| Measuring range:              | 0.01 - 5 mg/L TP   |
| Operating temperature range:  | 5 - 40 °C  |
| Parameter:                    | 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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