

PHOSPHATO

Orthophosphate Analyser



The PHOSPHATO series features online analysers for the continuous monitoring of the orthophosphate concentration for measuring ranges up to 50 mg/l PO₄-P.

Available in three different housings: Standing with castors as PHOSPHATO-LAB, wall-mounted as PHOSPHATO-PRO or as PHOSPHATO-FIX in a heated stainless steel cabinet for outdoor installation at the site of measurement.

- Low reagent consumption
- Easy, modern operation
- Maximum reliability
- High accuracy
- Sturdy design

Method

The instrument applies the photometric yellow method. This method is highly recommended by German wastewater association DWA.

A wide measuring range up to 50 mg/l is covered with high accuracy. The maximum measuring range can be reached without manual changes to the instrument settings or recalibration. This makes PHOSPHATO highly reliable for detecting irregularities. Eco-Save feature: automatic adjustment of the reagent dosage to the actual measuring value can further reduce the low reagent consumption.

Applications

Wastewater
(wastewater treatment plants, paper industry, refineries, pharmaceutical industry)

General technical data

PHOSPATO Series Analysers

Measuring method	Photometric (yellow method)
Measuring interval	Continuous
Measuring range	LAB/PRO/FIX 3: 0.05~3 mg/l PO ₄ -P LAB/PRO/FIX 10: 0.2~10 mg/l PO ₄ -P LAB/PRO/FIX 50: 0.2~50 mg/l PO ₄ -P
Accuracy	± 2% of measured value ± 0.1 mg/l
Resolution	0.01 mg/l (measured value 0.01~9.99 mg/l) 0.1 mg/l (measured value ≥ 10.0 mg/l)
Repeatability	± 1% of measured value
Calibration	Automatic, manual or via remote control
Sample volume	Max. 1 l/h
Signal output	4~20 mA, RS 232, optional RS 422
Alarm output	Potential free contact
Power supply	230 V AC ± 10%, 50 Hz, optional 115 V AC ± 10%, 60 Hz
Sample temperature	10~35 °C

Recommended accessory:

Filter system product code 746 260

Housing data

PHOSPHATO-LAB

Description	Sheet steel housing with castors
Power consumption	Max. 65 VA
Ambient temperature	4~45 °C
Dimensions	690 mm × 1780 mm × 690 mm
Weight	Approx. 95 kg (without reagents)
Protection class	IP 44

Product code 747 640



PHOSPHATO-PRO

Description	Sheet steel housing for wall mounting
Power consumption	Max. 65 VA
Ambient temperature	4~45 °C
Dimensions	600 mm × 1140 mm × 400 mm + 600 mm × 110 mm × 400 mm (drip pan)
Weight	Approx. 80 kg (without reagents)
Protection class	IP 44

Product code 747 660



PHOSPHATO-FIX

Description	V2A stainless steel isolated with 40 mm PU foam
Power consumption	Max. 185 VA
Ambient temperature	-20~45 °C
Dimensions	720 mm × 1930 mm × 720 mm
Weight	Approx. 140 kg (without reagents)
Protection class	IP 65

Product code 746 600



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