

# 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 PO<sub>4</sub>-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

### PHOSPHATO Series Analysers

Measuring method	Photometric (yellow method)
Measuring interval	Continuous
Measuring range	LAB/PRO/FIX 3: 0.05~3 mg/l PO <sub>4</sub> -P LAB/PRO/FIX 10: 0.2~10 mg/l PO <sub>4</sub> -P LAB/PRO/FIX 50: 0.2~50 mg/l PO <sub>4</sub> -P
Accuracy	± 2% of measured value ± 0.1 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**

