PHOSPHO
Total Phosphorus Analyser

GIMAT
Liquid Monitoring

The PHOSPHO family is an online analyser for continuous monitoring of the total phosphorus concentration in measuring ranges up to 50 mg/l P.

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

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

Method

The instrument applies a method derived from DIN EN ISO 6878 using a UV digestion with peroxodisulphate and sulphuric acid followed by 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 PHOSPHO 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

River water

Process water (paper industry, refineries, pharmaceutical industry)

Wastewater treatment plants

PHOSPHO Series Analysers

Measuring method	Photometric (yellow method), UV oxidation
Measuring interval	Continuous
Measuring range	LAB/PRO/FIX 3: 0.05~3 mg/l P LAB/PRO/FIX 10: 0.2~10 mg/l P LAB/PRO/FIX 50: 0.2~50 mg/l 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

Housing data

PHOSPHO-LAB

Description	Sheet steel housing with castors
Power consumption	Max. 80 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 747 716

PHOSPHO-PRO

Description	Sheet steel housing for wall mounting
Power consumption	Max. 80 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 747 736

PHOSPHO-FIX

Description	V2A stainless steel isolated with 40 mm PU foam
Power consumption	Max. 200 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 746 690