

# FLUORAT<sup>®</sup>-02 ANALYZERS

**FLUOROMETER/PHOTOMETER**

**CHEMICAL OXYGEN DEMAND  
REACTOR**

**HPLC-DETECTOR**



**FLUORAT<sup>®</sup>-02 ANALYZER operates as:**

**FLUOROMETER (filter spectral selection)**

**PHOTOMETER (filter spectral selection)**

**HPLC-FLUOROMETRIC DETECTOR**

**COD-ANALYZER (using COD-reactor)**

## **FEATURES AND ADVANTAGES**

- ❖ Full compatibility with the methods developed for FLUORAT<sup>®</sup> product line.
- ❖ Low detection limit.
- ❖ Analysis of a large variety of components.
- ❖ High analytical selectivity as compared to conventional photometric devices.
- ❖ Low consumption of reagents and short time of analysis.
- ❖ Extended memory for calibration and other analysis parameters.
- ❖ Operation as a fluorometer, chemiluminometer, photometer, nephelometer.  
FLUORAT<sup>®</sup>-02-4M with attachments can be used as an HPLC detector.
- ❖ COD-reactor TERMION is used for Chemical Oxygen Demand measurements.



## APPLICATION EXAMPLES

Water	natural, potable, and waste water (Al, B, Cu, Mn, Mo, Ni, Sn, U <sup>[1]</sup> , V, Zn; cyanides, nitrites, surfactants, toxicity (chlorophyll) benz[a]pyrene <sup>[1,2]</sup> , formaldehyde, petroleum hydrocarbons, phenols, COD <sup>[3]</sup> ; potable water (As, Be, Cr, Se, fluorides, turbidity <sup>[4]</sup> ); natural and stratal water (dyes and traces – fluorescein, eosin, rhodamin)
Soil, bottom sediments, and solid waste	petroleum hydrocarbons; benz[a]pyrene <sup>[1,2]</sup>
Food	Sn, Se; aflatoxins B1 <sup>[1,2]</sup> and M1 <sup>[1,2]</sup> , zearalenone <sup>[1,2]</sup> , vitamins A <sup>[1,2]</sup> , E <sup>[1,2]</sup> , vitamins B <sub>1</sub> , B <sub>2</sub> and C, benz[a]pyrene <sup>[1,2]</sup> , ochratoxin A <sup>[1,2]</sup>
Emission measurement	benz[a]pyrene <sup>[1,2]</sup> , formaldehyde, phenol
Air	Cu, Zn; benz[a]pyrene <sup>[1,2]</sup> , formaldehyde, phenol, hydrogen fluoride

<sup>[1]</sup> with the FLUORAT®-02-4M model only

<sup>[2]</sup> with the HPLC LUMACHROM®

<sup>[3]</sup> with the COD-reactor

<sup>[4]</sup> with the FLUORAT®-02-5M model only

## SPECIFICATIONS

Modifications	FLUORAT®02-4M	FLUORAT®02-5M
Wavelength range	200–650 nm	200–900 nm
Cell	10, 20, and 40 mm	
Sample volume (for 10 mm cell)	3 cm <sup>3</sup>	
Measurement time	< 16 sec	
Power supply	110–240 VAC, 50/60 Hz	
Power consumption	< 36 VA	
Dimensions	305x320x110 mm	
Weight	6.5 kg	

HPLC unit is used with FLUORAT®-02-4M only.

## OPTIONS

Liquid chromatograph LUMACHROM® (syringe pump, injector, flow cell and HPLC accessories)

COD-reactor

Kits for analysis



## WARRANTY

All LUMEX equipment is covered by a 12-month warranty.

## SERVICES

Installation and commissioning of LUMEX instruments can be carried out at a customer site by our service engineers. Personnel training specific to the customer needs can also be provided. Free delivery of spare parts and repair of the instruments are provided within the warranty period.

The information and specifications in this publication are subject to change without notice.

**LUMEX®**

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