



«FLUORAT[®]-02» ANALYZER

FLUOROMETER/PHOTOMETER
HPLC-DETECTOR
CHEMICAL OXYGEN
DEMAND REACTOR



«FLUORAT[®]-02» ANALYZER operates as:

FLUOROMETER (filter spectral selection)
PHOTOMETER (filter spectral selection)
HPLC-FLUOROMETRIC DETECTOR
COD-ANALYZER (using COD-reactor)

FEATURES AND ADVANTAGES

- Low detection limit.
- High analytical selectivity, as compared to conventional photometric devices.
- Analysis of a large variety of components.
- Low consumption of reagents and short time of analysis.
- Nonvolatile memory for calibration and other analysis parameters.
- Operation as a fluorometer, chemiluminometer, photometer, nephelometer.
- «FLUORAT[®]-02-2M» with attachment can be used as a HPLC detector.
- COD-reactor «TERMION» is used for Chemical Oxygen Demand measurements.



LUMEX

APPLICATION EXAMPLES

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

[1] with a «FLUORAT[®]-02-2M» model only

[2] with a liquid chromatograph «LUMACHROM[®]» or a HPLC unit of other manufacturers (with a «FLUORAT[®]-02-2M» model)

[3] with a COD reactor

[4] with a «FLUORAT[®]-02-3M» model only

SPECIFICATIONS

	«FLUORAT [®] -02-2M»	«FLUORAT [®] -02-3M»
Wavelength range	200 – 650 nm	200 – 900 nm
Cell	10, 20 and 40 mm	
Sample volume (for 10 mm cell)	3 cm ³	
Measurement time	< 16 sec	
Power supply	100 – 240 VAC, 50/60 Hz, 12 VDC, 3 A	
Power consumption	< 36 W	
Size	325x300x125 mm	300x300x100 mm
Weight	9.5 kg	8 kg

HPLC unit is used with «FLUORAT[®]-02-2M» only.

OPTIONS

- HPLC unit for liquid chromatography (syringe pump, injector, flow cell and HPLC accessories)
- COD-reactor
- Reagents 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.

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