



flumo LB 500 Luminescence PET Detector *

- Highly sensitive detector
- Background-free Gamma and PET Monitoring
- Various cell sizes

detect and identify

fLumo LB 500

Luminescence PET Detector

Flow Monitoring Chemiluminescence and Gamma Isotopes in High Background Labs

The fLumo Chemiluminescence Detector for HPLC and liquid chromatography systems uses a highly sensitive head-on photon counting detector with low background. Different cell sizes can be used to adapt for flow rates and signal intensities. The compatibility of the evaluation electronics to external analysis systems is guaranteed.

Highly Sensitive Luminescence Monitoring

Due to the low-noise head-on PMT designed to face the sample coil in a direct way makes the fLumo an utmost sensitive detector for faintest traces of chemiluminescence signals.

Background-free Gamma and PET Monitoring

The use of specific measuring cells makes the measurement of high activity gamma emitting isotopes as easy as can be even in a high background laboratory.

Operation Mode

The system can be used either in a „stand alone mode“, or be connected to a PC. The fLumo system is equipped with a flash memory and a 24 MHz CPU. This allows immediate data processing and easy upgrading.

Multiple Outputs

The user has the option of using the analogue output, the TTL signal or the digital output through the PC-software.

Downstream Control

Two threshold levels can be set in the fLumo system which can be used to activate, e.g. solenoid valves.

A driver for Chromeleon® and RadioStar is available. Documentation for instrument communication is available on request.

Specification and order information

Detection Device	low noise photon counting PMT
Detection Mode	luminescence gamma and PET isotopes
Max. count rate	4 million counts/sec
Linearity	$r^2 > 0.995$
Background	~10 counts
Digital Interface	mini USB
Analog Output	TTL 0 to 1 V (10 Hz sampling rate)
Regulations	CE
Flow Cells	Cell Types Admixture cells (Z type) Solid scint. low background gamma/PET cells (MX type)
Cell Volumes	10 to 1000 μ L
Order number	35144-03 (with HERM electronics, without cell) 58785 (detector only, without cell)