

GABI STAR

RADIOACTIVITY HPLC FLOW MONITOR

μ-PROCESSOR CONTROLLED GAMMA SPECTROMETER
WITH BUILT-IN DIGITAL RATE METER.

- AUTOMATIC ENERGY CALIBRATION
- HIGH DYNAMIC RANGE
- OPERATOR SELECTABLE THRESHOLD SETTINGS
- 2 SIMULTANEOUS COUNTING CHANNELS



The GABI Star stand-alone unit offers a keyboard and liquid crystal display for parameter dialog, entry and result presentation; a high voltage unit for manual or pre-set selection of the required detector operation; 2 simultaneous counting channels with 2 individually selectable energy thresholds each.

The 2 simultaneous counting channels with 2 individually selectable energy thresholds each, allow an individual counting window for a particular nuclide. Gabi Star is counting the radiation events in an energy channel per selected interval time, which is transferred to a rate meter for conversion from digital to analogue format. Individual parameters of the rate meter can be selected and entered by LCD and keyboard. The output signal 0-1V can be easily adapted to the required chromatography conditions. Alternatively, the information of counts per time is transferred to a PC running the Gina Star program, enabling real time observation of the emerging chromatogram and powerful automated analysis of the end result.

Additional features are:

- Automatic energy calibration
- 2 simultaneous counting channels
- Free threshold settings
- Conversion of the digital format to an analogue output format of 0-1V
- Extremely high dynamic range from 0-500.000 c/s
- Digital communication to PC
- Manual or automatic peak integration, background subtraction, flow correction, absolute activity calculation etc.

Options

- 2x2" Nal scintillation detector
- 3x3" Nal scintillation detector



Technical specifications

GABI

Energy range	2x2" : 30-1600 keV
High voltage range	500-2000V
Count rate	0-500.000 c/s
Data input	7 analogue input channels, -0.5 to +4.5V, resolution 21 bits
Data output	RS232C, 2 analogue outputs 0-1V, resolution 20 bits

SCINTILLATION PROBES

Nal (TI) size	1x1" - 2x2" - 3x3"
Pin hole size	2x2" : 15 mm diameter, 30 mm deep 3x3" : 16 mm diameter, 40 mm deep
Energy range	2x2" : 100-700 keV
Typical nuclide	2x2" : ¹⁸ F, ^{99m} Tc
Shielding	50 mm lead

Physical specifications

Dimensions	W250 x D160 x H320mm (W9,84" x D6,29" x H12,59") without detector
Weight	max. 5 kg (11 lbs) without detector

