

## INSTALLED $\gamma$ -DOSERATE MONITOR

MULTI PURPOSE RADIATION MONITORING SYSTEM FOR  
A RANGE OF RADIATION PROTECTION APPLICATIONS

- CAN OPERATE VARIOUS GEIGER-MÜLLER-, NEUTRON- AND NaI-DETECTORS
- AVAILABLE FOR 1, 1-3 AND 1-6 DETECTORS OPERATING SIMULTANEOUSLY
- AUTOMATIC DETECTOR RECOGNITION
- VARIOUS PROGRAMMABLE OUTPUT SIGNALS
- CAN OPERATE IN A NETWORK OF UP TO 5 ALMOS / 30 INDIVIDUAL DETECTORS
- COMMUNICATION WITH RS232, 422, 485 AND USB



ALMO is a multi-purpose radiation monitoring system for a range of radiation protection applications. It can operate various Geiger-Müller detectors as well as neutron- and NaI-detectors. ALMO is available for 1, 1-3 and 1-6 detectors operating simultaneously and has an automatic detector recognition.

ALMO offers programmable alarm settings for 1, 2 or 3 levels for every single probe, as well as various programmable output signals. It can communicate via RS 232, 422, 485 and USB and can operate in a network of up to 5 ALMOS with a total of 30 individual detectors. All measurement values as well as all warnings are transferred to the central PC. A secondary display and alarm unit are available (optional).

Features :

- $\mu$ -controller supported
- Bright LCD display with backlight illumination, easily readable
- Installed  $\gamma$ -dose rate and  $\gamma$ -alarm
- Central data presentation
- Central programmable optical and acoustical alarm signal
- Low, medium, high gamma dose rate system and neutron dose rate system
- Automatic ranging
- Data transfer to PC, recording in hours, days, weeks, months, years
- Integration over any time laps
- Foil keyboard
- Installed door lock



### Technical specifications

<b>Almo 1</b>	For 1 detector, table or wall mount
<b>Almo 2</b>	For 1 - 3 detectors, table or wall mount
<b>Almo 6</b>	For 1 - 6 detectors, table or wall mount
Display	LCD with background illumination
Alarm	Optical, acoustical (optional : external warning unit)
Keyboard	Foil keyboard
Operating conditions	0 - +50°C, 0 - 96% relative humidity, non-condensing
I/O	3 outputs, 24 V, 500 mA or 3 potential free, 24 V, 1 A for 3-step warning light, horn, interlock
Power	Almo 1 : 100-240 V, 47-63 Hz, 15 W / Almo 3-6 : 100-240 V, 47-63 Hz, 60 W

#### GM-Detector 18545 C

Energy range:	40 keV - 1.3 MeV
Measurement range:	150 nSv/h - 200 $\mu$ Sv/h
Dimensions :	L345 mm, $\varnothing$ 25/40 mm
Weight:	380 g

#### GM-Detector 18509 C

Energy range:	55 keV - 1.3 MeV
Measurement range:	1 Sv/h - 10 $\mu$ Sv/h
Dimensions :	L110 mm, $\varnothing$ 40 mm
Weight:	150 g

#### Nal-scintillation detector 25B38

Energy range:	25 keV - 1.3 MeV
Measurement range:	40 nSv/h - 200 $\mu$ Sv/h
Dimensions :	L38 mm (active range), $\varnothing$ 25 mm
Weight:	200 g

#### GM-Detector 18550 C

Energy range:	40 keV - 1.3 MeV
Measurement range:	20 mSv/h - 1 $\mu$ Sv/h
Dimensions :	L10 mm, $\varnothing$ 40 mm
Weight:	150 g

#### GM-Detector 18529 C

Energy range:	70 keV - 3 MeV
Measurement range:	10 Sv/h - 100 $\mu$ Sv/h
Dimensions :	L110 mm, $\varnothing$ 40 mm
Weight:	150 g

### Physical specifications

Dimensions	Almo 1 : 200 x 150 x 75 mm Almo 3/6 : 280 x 300 x 120 mm
Weight	Almo 1 : 700 g Almo 3/6 : 2,2 kg



Phone: +32 4 242 78 50  
 Email: info@elysia.be  
 Website: www.elysia.be  
 Address: Elysia s.a. - Centre de Recherches du Cyclotron  
 Allée du six Août, 8 (B30) - 4000 Liège - Belgium