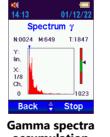


# MULTIPURPOSE HAND-HELD PM1401K-3E

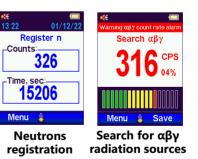
**PM1401K-3 series** of radiation monitors compromises a wide range of all-in-one devices for radiation detection, dose rate and contamination measurements, spectrometry and radionuclide identification.

**PM1401K-3E model** is a simplified model without identification and <sup>137</sup>Cs activity measurement functions which is designed for fast and accurate detection of alpha, beta, gamma and neutron sources, as well as the measurement of alpha and beta radiation flux density and acquisition of gamma spectra.





accumulation



Features

- Storage of up to 10000 events and 1000 spectra
- Audible, visual and external vibration alarm
- Shock and water resistant IP65 case
- USB communication with PC
- Built-in GPS module

## Applications

- Customs and border control
- HAZMAT and CBRNe teams
- Emergency services
- Police and security
- Industrial facilities
- First responders



# PM1401K-3E **MULTIPURPOSE HAND-HELD RADIATION MONITOR**



### SPECIFICATIONS

Detector	gamma	Csl(TI); GM counter
Detector	neutron	<sup>6</sup> LiF/ZnS
Gamma sensitivity	for <sup>137</sup> Cs	200 cps per μSv/h
	for <sup>241</sup> Am	2000 cps per µSv/h
Neutron sensitivity	for Pu-α-Be	0.15 cps⋅cm <sup>2</sup>
	for thermal neutrons	5.0 cps⋅cm <sup>2</sup>
Energy range	gamma (spectroscopy)	25 keV to 3 MeV
	gamma (measurement)	15 keV to 15 MeV
	neutron	thermal to 14 MeV
Dose rate measurement range		0.1 μSv/h to 100 mSv/h
Doco rato moscuromont		±(15 + 0.0015 / H̀) %,
Dose rate measurement accuracy		where H is the measured dose equivalent rate value in mSv/h
Resolution		$\leq$ 9 % FWHM at 0.662 MeV ( <sup>137</sup> Cs)
Gamma radiation scintillation spectra acquisition		1024 channels
Flux density measurement range		15 to 10 <sup>5</sup> min <sup>-1</sup> ·cm <sup>-2</sup>
riux density measureme	beta	6 to 10 <sup>5</sup> min <sup>-1</sup> ·cm <sup>-2</sup>

Warm-up time	< 90 s	
Memory	10000 events, 1000 spectra	
Alarms	visual, audible, external vibration	
Communication	USB	
Power supply	2 AA alkaline or NiMH batteries	
<b>Battery lifetime</b> (normal radiation backgro alarms and LCD backlight		

Ingress protection	IP65	
Drop test	0.7 m	
Dimensions	262 × 60 × 65 mm	
Weight	≤ 820 g	
Operating conditions		
<ul> <li>ambient temperature</li> </ul>	–20 °C to 50 °C	
<ul> <li>atmospheric pressure</li> </ul>	84 kPa to 106.7 kPa	
<ul> <li>relative humidity</li> </ul>	up to 95 % at 35 °C	



Neutron moderator for increasing sensitivity to neutron radiation

**Polimaster Inc.** 

info@polimaster.us

Sterling,

PM1401K-3 Desktop Software for adjusting instrument settings, downloading the operating history and analyzing the gamma spectra



Telescopic extension pole for remote operation and surveys in hard-to-reach areas

44873 Falcon Place, Suite 128 VA 20166, USA phone: +1 703 525 5075 fax: +1 703 525 5079

**Polimaster Europe UAB** Ezero str. 4, Didziasalio k., Nemezio sen., LT-13264, Vilnius district, Lithuania phone: +370 5 210 2323 fax: +370 5 210 2324 info@polimaster.com

Polimaster Japan Co., Ltd. AUBE2 5-177 Kuratsuki, Kanazawa, Ishikawa Prefecture 920-8203 Japan phone: + 81 076 201 8623 fax: + 81 076 201 8624 pacific@polimaster.jp

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