POLIMASTER®

Innovating Radiation Detection Technologies Since 1992

ALARMING RATEMETER
PM1701M

The PM1701M Alarming Ratemeter is specially designed to detect and locate radioactive sources in out-of-the-way places, noisy environments, harsh environments, low visibility places and other adverse conditions.

The device is supplied with a telescopic handle and head phones.

It is recommended to monitor vehicles, territories and facilities as well as to monitor and control the levels of radiation deposited from waste materials and particularly metal scraps.

ALARM

LOCATION

MEASUREMENT

IRDA

CE ISO 9001

Applications

- Scrap metal facilities
- First responders
- HazMat teams

Features

- Continuous automatic monitoring of radiation background
- Capable to search and locate radiation
- Non-volatile memory for storage and processing of operation history
- Alarming function and a possibility to connect headphones
- PC communication via IR interface
- Easy-to-use
- Waterproof and shockproof case

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SPECIFICATIONS

Detector	**CsI(Tl) Scintillator**
Sensitivity for ^{137}Cs**, not less**	**100** $s^{-1}/(\mu Sv/h)$
Count rate range	**1 - 9999** s^{-1}
Energy range	**0.06 to 3.0 MeV**
Count time: **- in the background calibration mode** **- in the search mode**	 **36 sec** **2 sec**
Range of coefficient n **(number of mean square deviations)**	**1 to 7**
False alarm rate (n = **3), not more**	**1** min^{-1}
Detection of a source moving at 0.2±0.005 m **distance and** 0.5±0.05 m/s **velocity (background not more than** 0.25 μSv/h)	**55 kBq** ^{133}Ba
PC communication	**Download data and upload instrument set up via IR interface**
Environmental: **Temperature range** **Relative humidity**	 **-30 °C to +50 °C (LCD: -15 °C to +50 °C)** **up to 95 % at 35 °C**
Power requirements	**one 1.5V AA size battery**
Battery lifetime typical	**1000 h**
Case Protection Class	**IP67**
Drop test	**0.7 m onto concrete floor**
Dimensions	**54 x 202 x 646 mm**
Weight, max.	**0.75 kg**

Design and specifications of the device can be changed without further notice.

Meets ANSI N42.33 and ITRAP requirements

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