



# 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.



## Features:

- Continuous automatic monitoring of radiation background
- Searching and location of radiation sources
- 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



**ALARM**



**LOCATION**



**MEASUREMENT**

## Application:

- Scrap metal facilities
- First responders
- HazMat teams



# ALARMING RATEMETER

# PMT701M

## SPECIFICATIONS

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

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



**Meets ANSI 42.33  
and ITRAP requirements**