PORTABLE GAMMA SURVEY METER
‘PEGASUS’

Model ~ NHL-4

FEATURES:
- PORTABLE
- GAMMA SURVEY DETECTION
- WIDE DOSE RATE RANGE
- HIGH SENSITIVITY
- DUAL DETECTOR:
  - SCINTILLATOR CsI (TI)
  - SILICON SEMICONDUCTOR
- USER SETTABLE ALARM
- AUDIBLE / VISUAL ALARM
- RECHARGEABLE ~ LONG BATTERY LIFE
- BATTERY INDICATOR
- USB PORT FOR DATA TRANSFER
- WATERPROOF, IMPACT RESISTANT
- LIGHTWEIGHT, SINGLE HAND OPERATION
- BACKLIT DISPLAY
- GPS POSITIONING
- IP54

APPLICATION:
Gamma dose monitoring restricted areas of Nuclear Power Stations & other Nuclear Facilities:

DESCRIPTION;
Protect personnel with the NHL-4.
Dose, Dose Rate, and Operating Time alarm values can be Preset.
# PORTABLE GAMMA SURVEY METER

**‘PEGASUS’**

Model ~ NHL-4

## SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>NHL4 (US model)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>PEGASUS PRO</td>
</tr>
<tr>
<td>Radiation detected</td>
<td>Gamma (X-Rays)</td>
</tr>
<tr>
<td>Detector</td>
<td>CsI(Tl) scintillator detector and Silicon semiconductor detector</td>
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<tr>
<td>Energy Range</td>
<td>50 KeV to 6 MeV</td>
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</table>

**Measurement Range**

| Dose Rate                        | 0.001 μSv/h to 99.99 mSv/h |
|                                 | 0.1 μR/h to 9.999 R/h     |

**Accumulated Dose**

| 0.001 μSv to 99.99 mSv |
| 0.1 μR to 9.999 R    |

**Energy Response**

≤ ±30 % (60 keV to 1.5 MeV, 137Cs reference)

**Accuracy**

≤ ±10 %

(0.1 μSv/h to 99.99 mSv/h,
10 μR/h to 9.999 R/h)

**Angular Response**

≤ ±25 %

(Horizontal Vertical ±90° : 137Cs except Battery direction)

**Time Constant Setting**

Standard Deviation Fixed mode or Time Constant Fixed mode switchable

Time Constant 3 level setting (3 seconds, 10 seconds, 30 seconds)

**Display**

STN Monochrome LCD

**Indication Data**

Digital and analog Indication of current dose rate, Maximum dose rate, Accumulated dose, Alarm setting value, Battery Indication and Time Indication

**Sound Function**

Counting and Alarm sound

(Internal speaker or earphone)

**Power Supply**

Standard AA Batteries (LR6) x 2 cells

Alkaline or Nickel-metal-hydride (USB supply, recharging possible)

**Battery Lifetime**

≥ 48 hours

(Continuous operation, when counting sound OFF, communication function OFF)

**Communicating Functions**

USB, GPS (Positioning)

**Operating Temperature**

-20 °C to +50 °C

**Operating Humidity**

≤ 95 %RH (Non-condensing)

**Degree of Protection (IP Code)**

IP54

| Approx. 60 (W) x 27 (D) x 120 (H) mm |
| Approx. 2.4 (W) x 1.1 (D) x 4.7 (H) inches |

**Mass**

Less than 200 g / 0.44 lb. (excluding Batteries)

**Compliance Code**

JIS Z 4333 (2006)

Note) 1 Sv = 100 R