

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**



FUJI ~ PEGASUS
NHL-4

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.



TECHNICAL ASSOCIATES
OVERHOFF TECHNOLOGY

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PORTABLE GAMMA SURVEY METER 'PEGASUS'

Model ~ NHL-4

SPECIFICATIONS

| | | |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| Model | NHL4 (US model) | |
| Name | PEGASUS PRO | |
| Radiation detected | Gamma (X-Rays) | |
| Detector | CsI(Tl) scintillator detector and Silicon semiconductor detector | |
| Energy Range | 50 KeV to 6 MeV | |
| Measurement Range | Dose Rate | 0.001 μ Sv/h to 99.99 mSv/h 0.1 μ R/h to 9.999 R/h |
| | Accumulated Dose | 0.001 μ Sv to 99.99 mSv 0.1 μ R to 9.999 R |
| Energy Response | $\leq \pm 30$ % (60 keV to 1.5 MeV, ^{137}Cs reference) | |
| Accuracy | $\leq \pm 10$ % (0.1 μ Sv/h to 99.99 mSv/h, 10 μ R/h to 9.999 R/h) | |
| Angular Response | $\leq \pm 25$ % (Horizontal Vertical $\pm 90^\circ$: ^{137}Cs 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 $^\circ\text{C}$ to +50 $^\circ\text{C}$ | |
| 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



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