

Portable Gamma Survey Meter

NHL

PEGASUS

(Portable Environmental Gamma Survey System)

NHL is a hand-held survey meter for ambient dose measurement. NHL provides accurate measurement over wide dose rate range from background level (10 μ R/h - 10R/hr)

FEATURES

- High sensitivity
 - Wide range of measurement from background level 0.01 μ Sv/h to 99.99 mSv/h (1 μ R/h to 9.999 R/h)
 - Advanced model (NHL4) measures more wide range from 0.001 μ Sv/h to 99.99 mSv/h (0.1 μ R/h to 9.999 R/h)
- Light weight and small size
The mass is approx. 200 g and easy to carry
- Ease of operation with single hand
Featuring a backlit display, analog graph and large buttons
- Dust and Water proof
Reliable for outdoor measurement (Water resistant IP54)
- Data output function
Transmit the measurement data to PC by connecting USB cable
- Other function
 - Both digital and analog dose rate indications
 - Operable by optional rechargeable battery as well as standard AA battery
 - GPS unit (Model: NHL4)



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	0.001 μ Sv/h to 99.99 mSv/h 0.1 μ R/h to 9.999 R/h
Dose Rate	
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
Size	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

⚠ CAUTION

*Read the instruction manual provided before using this product, to make sure you operate it safely.

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