

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.

FEATURES

- **High sensitivity**
 - Wide range of measurement from background level 0.01 $\mu\text{Sv/h}$ to 99.99 mSv/h (1 $\mu\text{R/h}$ to 9.999 R/h)
 - Advanced model (NHL4) measures more wide range from 0.001 $\mu\text{Sv/h}$ to 99.99 mSv/h (0.1 $\mu\text{R/h}$ 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**
Easy operation for anyone with big 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	NHL3 (not available in US)	NHL4 (US model)
Name	PEGASUS	PEGASUS Pro
Radiation detected	Gamma (X) rays	
Detector	Silicon semiconductor detector	CsI(Tl) scintillator detector and Silicon semiconductor detector
Energy Range	50 keV to 6 MeV	
Measurement Range	Dose Rate	0.01 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 0.001 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	$\leq \pm 10\%$ (1 μ Sv/h to 99.99 mSv/h)	$\leq \pm 10\%$ (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	≥ 72 hours	≥ 48 hours (Continuous operation, when counting sound OFF, communication function OFF)
Communicating Functions	USB	USB, GPS (Positioning)
Operating Temperature	-20 °C to +50 °C	
Operating Humidity	$\leq 95\%$ 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.

Fuji Electric Co., Ltd.
Headquarters

Sales Dept. III

Power and Social Infrastructure Sales Div. Global Business Group

Gate City Ohsaki, East Tower, 11-2, Osaki 1-chome,

Shinagawa-ku, Tokyo 141-0032, Japan

Phone: +81-3-5435-7276, FAX: +81-3-5435-7436

<http://www.fujielectric.com/products/radiation/>