Ionization Chamber Survey Meter

AE-133V / Λ2+

Features of +(plus) model

- Range positional signal output is added.
- The convenience as an area monitor improves by combining with wireless date collecting device, DAQ-13301.
  It is possible to record date any time, any where.
- The measurement performance follows the current model.

Features

1. H*(10) is read directly.
2. Excellent energy characteristics.

   Good energy response at wide energy range of 30keV to 2MeV.
3. Light and compact

   It is possible to use for a portable area monitor.
4. Single-point calibration

   Calibration constant at single-point is applied to all ranges because it has good linearity between range positions.
5. High sensitivity and wide measuring range

Table1. Measuring range of plus model of AE-133 series

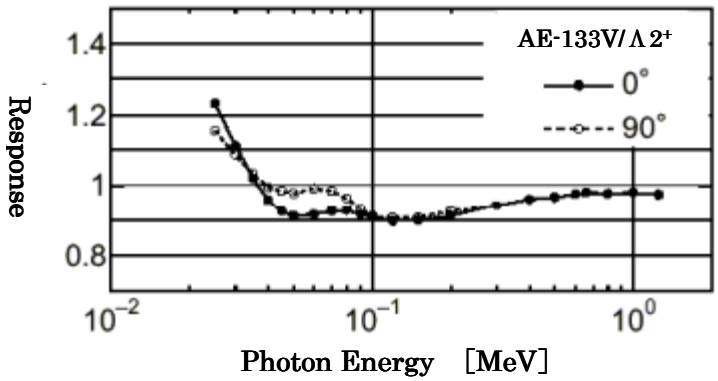
Type	Mesuring Range									
	μSv/h					mSv/h				
	0	0.1	1	10	100	1	10	100	1000	10000
AE-133LW/Λ2+										
AE-133L/Λ2+										
AE-133/Λ2+										
AE-133V/Λ2+										
AE-133B/Λ2+										
AE-133II/Λ2+										
AE-133BH/Λ2+										

Specifications

Radiation Detected	X and gamma ray at 30keV to 2MeV	**Linearity**	0.9 to 1.1
Unit Switching	×1 and ×1000	**Power Supply**	Battery: four 6F22(9V) and one NC706(24V) It is possible to use AC adapter (option).
Range	(×1) 3, 10, 30, 100, 300, 1000μSv/h (×1000) 3, 10, 30, 100, 300, 1000mSv/h (The indication in mSv/h is an option.)	**Battery Life**	6F22:approximately 170 hours (continuous use) NC706: approximately 5 years. See the expiration date written on NC706.
Measuring Range	Minimum scale : 0.1μSv/h to 1000mSv/h ※It is possible to read at 0.05 μSv/h.	**Battery Check**	Push the button and power supply can be checked except for applied voltage (NC706).
Response Time	(×1) within 10 seconds exclude 3 μSv/h range (×1000) within 1 second	**Environmental Condition**	−5℃ to +45℃ Relative humidity is less than 90%.
Detector	Cylindrical ionization chamber(sealed type) Volume: approximately 300ml	**Dimension**	170mm(D) × 90mm(W) × 110mm(H)
Output	Output I (dose rates): +10mV full scale Output impedance: 100Ω Output II (range position):Approx. 300mV to 3000mV	**Weight**	Body: approximately 800g Batteries (6F22 and NC706): 200g

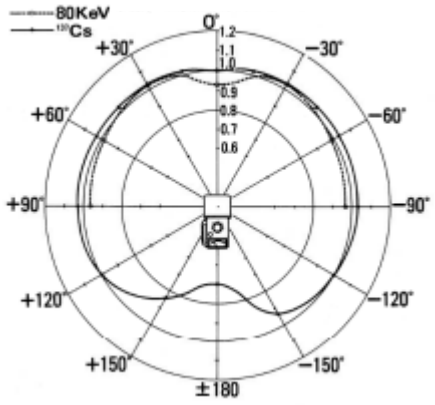
Energy and direction characteristics

Energy characteristics

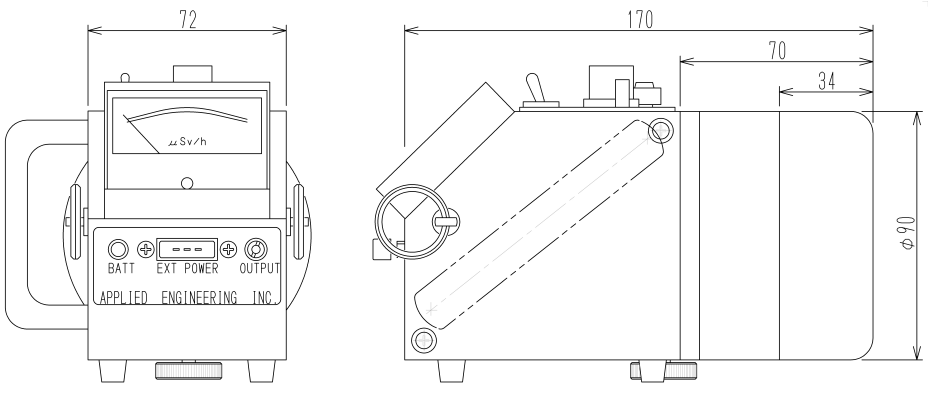


Direction characteristics

The exposure directions from gamma rays(^{137}Cs) is set to 1.



Outside drawing of 133 V / Λ2+



*Connector for AC adapter (EXT POWER) is an option.

Due to our policy of continued development, specifications are subject to change without notice.

APPLIED ENGINEERING INC.

■Exposure Meters For Environmental Radiation/For Radio Therapy
■Electronics Apparatus, System Machinery for Measurement of Micro Current

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