

Ionization Chamber Survey Meter



AE-133B

Features

1. $H'(0.07)$ and $H^*(10)$ are read directly.
2. Excellent energy and direction characteristics
3. Light and compact
4. High sensitivity and wide measuring range
5. Single-point calibration

Type	Measuring Range									
	$\mu\text{Sv/h}$					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										
AE-133H										
AE-133BH										



Specifications

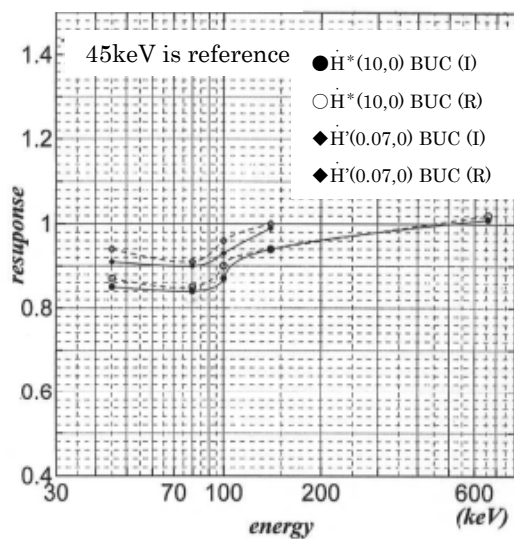
Measuring Quantity and Radiation Detected	$H'(0.07)$ and $H^*(10)$ Beta ray ($^{147}\text{Pm} \sim ^{90}\text{Sr} - ^{90}\text{Y}$) E_{max} : 225keV to 2.28MeV X and γ ray at 60keV to 3MeV	Output	Output terminal: +10mV full scale Output impedance: 100 Ω
Unit Switching	$\times 10$ and $\times 1000$	Power Supply	Battery: four 6F22(9V) and one NC706(24V) It is possible to use AC adapter (option).
Range	($\times 10$) 3, 10, 30, 100 $\mu\text{Sv/h}$ ($\times 1000$) 3, 10, 30, 100 mSv/h	Battery Life	6F22: approximately 170 hours (continuous use) NC706: approximately 5 years. See the expiration date written on NC706.
Measuring Range	Minimum scale : 1 $\mu\text{Sv/h}$ to 100 mSv/h ※It is possible to read at 0.5 $\mu\text{Sv/h}$.	Battery Check	Push the button and power supply can be checked except for applied voltage (NC706).
Response Time	($\times 10$) within 10 seconds exclude 3 $\mu\text{Sv/h}$ range ($\times 1000$) within 1 second	Environmental Condition	-5°C to $+45^{\circ}\text{C}$ Relative humidity is less than 90%.
Linearity	$H'(0.07)$: 0.8 to 1.2 (0.5 to 1.8MeV/ E_{res}) $H^*(10)$: 0.88 to 1.12 (80keV to 3MeV)	Dimension	177mm(D) $\times$ 134mm(W) $\times$ 151mm(H)
Standard Accessories	Build Up Cap for $H^*(10)$ and inner filter made from acryl and thickness is 0.5mm.	Weight	Body: approximately 1600g Batteries (6F22 and NC706): 200g
Detector	Parallel plate type ionization chamber with thin film window Volume : approximately 60ml Dimension of aperture : ϕ 99.6mm		

Energy and direction characteristics

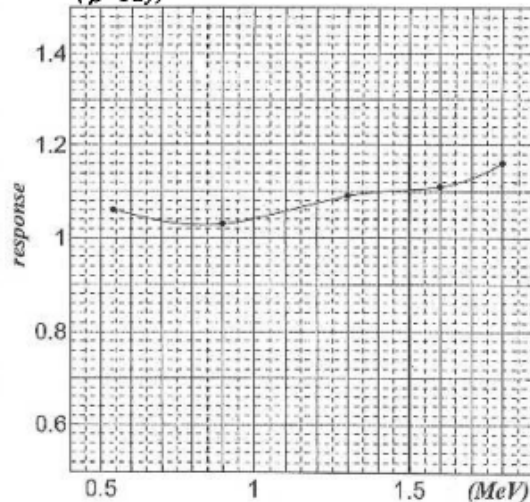
Energy response

(22°C, 1013hPa)

(X and gamma ray)

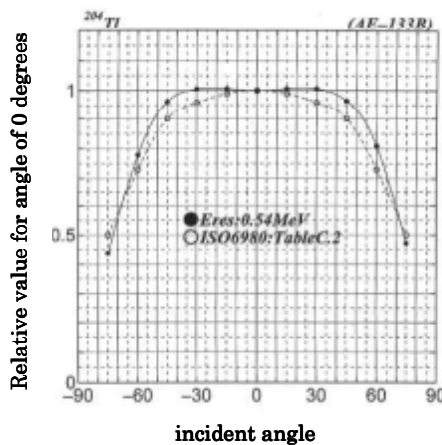


(β ray)

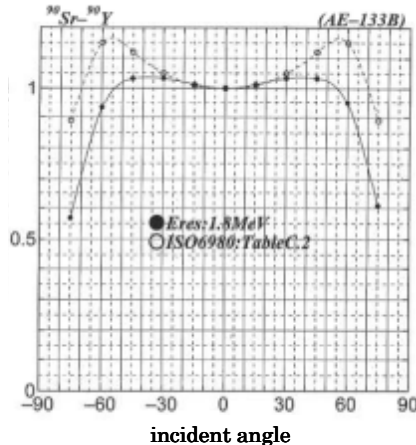


maximum residual energy of beta ray

Direction characteristics
for beta ray (0.07, α)/(0.07,0)

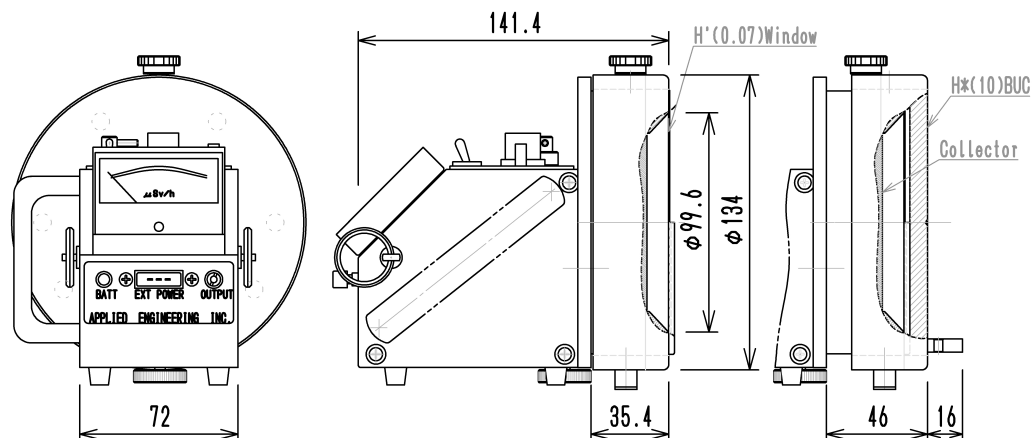


Direction characteristics
for beta ray (0.07, α)/(0.07,0)



Outside drawing of AE-133 B

*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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