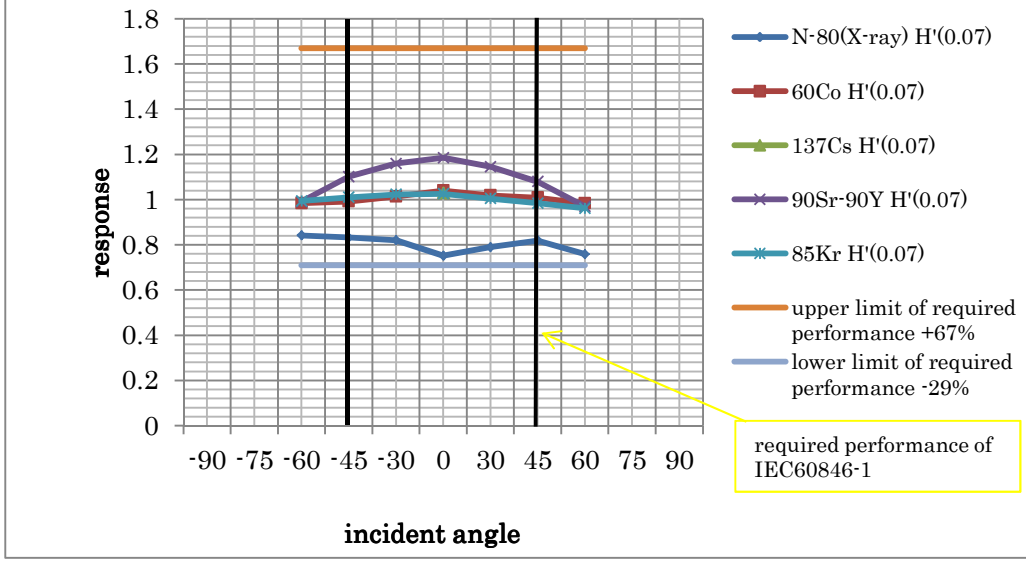
Ionization Chamber Survey Meter

AE-133BH

Features

1. H'(0.07), H*(10) and H'(3) are read directly.
2. Excellent energy and direction characteristics
3. Light and compact
4. High sensitivity and wide measuring range
5. Single-point calibration
6. Dose rates of protective clothing after radiations penetrates is read.

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										
AE-133H										
AE-133BH										



Specifications

Measuring Quantity	H'(0.07),H*(10) and H'(3)	**Output**	Output terminal: +10mV full scale Output impedance: 100Ω
Radiation Detected	Beta ray(^{147}Pm～^{90}Sr－^{90}Y) E_{max} : 225keV to 2.28MeV X and γ ray at 60keV to 3MeV	**Power Supply**	Battery: four 6F22(9V) and one BH-30V(30V) It is possible to use AC adapter (option).
Range	30, 100, 300, 1000, 3000, 10000 mSv/h	**Battery Life**	6F22:approximately 170 hours (continuous use) BH-30V: approximately 5 years. See the expiration date written on BH-30V.
Measuring Range	Minimum scale : 1mSv/h to 10000mSv/h ※It is possible to read at 0.5mSv/h.	**Battery Check**	Push the button and power supply can be checked except for applied voltage (BH-30V).
Response Time	within 0.1 seconds	**Environmental Condition**	－5℃ to +45℃ 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) × 134mm(W) × 151mm(H)
Standard Accessories	Inner filter (It is made from acryl and thickness is 0.5mm.)	**Weight**	Body: approximately 1600g Batteries (6F22 and BH-30V): 200g Build Up Cap : approximately 170g
Detector	Parallel plate type ionization chamber with thin film window Volume : approximately 60ml Dimension of aperture : φ99.6mm		

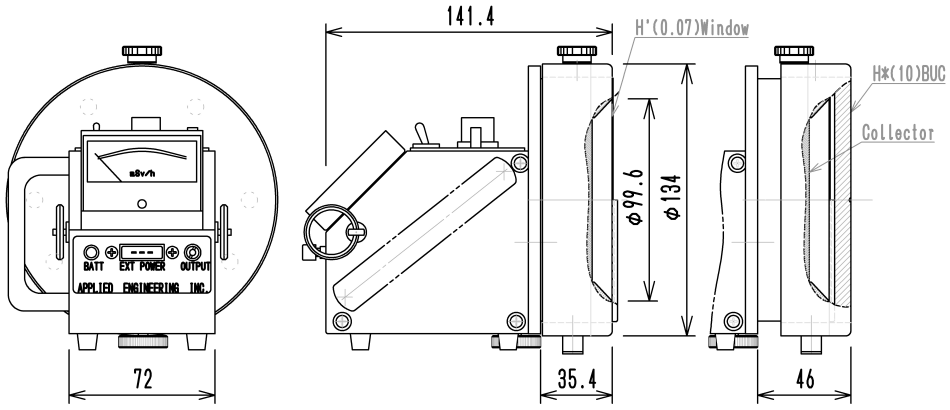
Table.1 Collection efficiency of AE-133BH

dose equivalent rate	design value(f)
10 Sv/h	0.95
8 Sv/h	0.96
6 Sv/h	0.97
5 Sv/h	0.98
3 Sv/h	0.99
2 Sv/h	1.0
1 Sv/h	1.0

Three build up caps, body and inner filter for H'(0.07), H'(3) and H*(10) from the left of upper row

Outside drawing of AE-133BH

*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
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