

GS-1400A and B ANVIS Compatibility Radiometers

PRODUCT SUMMARY

Gamma Scientific's GS-1400A and GS-1400B ANVIS Compatibility Radiometers measure the ANVIS radiance of instrumentation panels according to military specification MIL-L-85762A and MIL-STD-3009 for ANVIS class A or ANVIS class B. With the GS-1400A/B, industry personnel can ensure that interior aircraft lighting meets ANVIS compatibility requirements.

The most striking feature of the GS-1400A/B is its ease of operation. Simply switch the selector knob to ANVIS green or yellow, depending on the current application, and place the fiber-optic input receptor on the surface to be measured. Push the Read button on the hand piece, and within seconds, a direct reading of absolute ANVIS radiance value appears on the illuminated LCD, which is itself ANVIS compatible. An audible tone even signals when the ANVIS threshold is exceeded. Release the Read button, and the meter reading is placed in the hold mode on the 3½ digit LCD. After about 5 minutes, the instrument turns itself off. Since there is only one adjustment for the user to make, the possibility of error is very small.

The GS-1400A and GS-1400B are able to measure ANVIS radiance for the given threshold sensitivities by matching the spectral responsivity specified in MIL-L-85762A and MIL-STD-3009. When placed against a measurement surface, the standard input receptor can analyze a measurement spot diameter of 1.6 mm (.062 inches). Because the receptor is placed directly against the surface to be measured, ambient stray radiation is greatly reduced and measurement accuracy increased.

The GS-1400A and GS-1400B are battery operated and light weight, making them ideal for field measurements as well as on-line production testing.



FEATURES

- *Production and inspection testing for Aviators' Night Vision Imaging System compatibility*
- *ANVIS green and yellow measurements*
- *Direct-reading lighted digital panel meter (ANVIS compatible)*
- *Audible warning tone*
- *Convenient Read button*
- *Automatic shut-off*
- *Battery operated*
- *Low-voltage indicator*
- *Reduced ambient stray light*
- *Accesses hard-to-reach instruments*
- *Threshold sensitivities permanently set*
- *Light weight*
- *Ready to use*



GAMMA SCIENTIFIC

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SPECIFICATIONS

Maximum Sensitivity	1E-12 ANVIS RADIANCE (AR)
Full Scale Sensitivities	ANVIS GREEN: 19.99E -10 AR ANVIS YELLOW: 19.99E -11 AR
Threshold Sensitivities	ANVIS GREEN: 170E -10 AR ANVIS YELLOW: 5.00E -11 to 1.500E-7
Spectral Response	450 nm - 930 nm per MIL-L-85762A and MIL-STD-3009, class A or class B
Optical Input	Fiberoptic Probe with measurement spot diameter of 0.062 in. (1.6 mm) for contact measurements.
Threshold Indicator	Direct reading of absolute ANVIS RADIANCE on panel meter with audible tone
Absolute Readout	3½ digit LCD reads absolute ANVIS RADIANCE (AR). A pushbutton on the hand piece turns instrument on when depressed. When released, it holds the meter reading and turns off the high voltage. Reading stays on for approximately 5 minutes, and then unit automatically turns itself off.
Accuracy	Absolute AR within 10%. Linearity ± 1%.
Calibration	External NIST -traceable standard source, such as Gamma Scientific RS-Series.
Controls	Pushbutton READ/HOLD, DARK CURRENT adjust, and ANVIS YELLOW/ANVIS GREEN selector knob.
Power	Two 9-volt alkaline batteries - 8 hours nominal continuous operating time, increased due to automatic turn-off feature. Low battery power indication: decimal point that is normally lit goes out, and unlit decimals turn on
Length	9.25 inches
Width	6.25 inches
Height	2.63 inches
Weight	3 pounds



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