

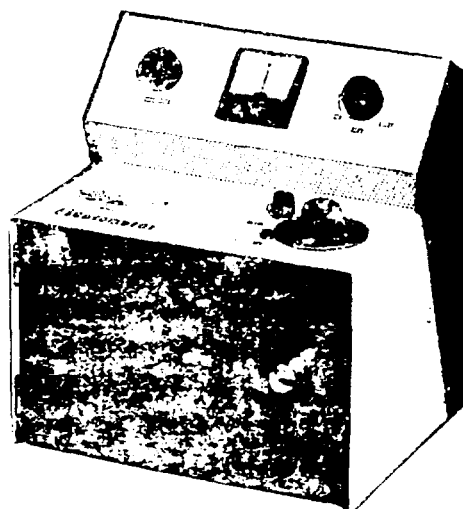
FED. SUP CLASS

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USER ACTIVITIES: ARMY - MD, DM  
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AIR FORCE - 82

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.



**MATERIAL:** Cabinet is heavy duty steel with resistant finish. Light interrupter housing, light cam and optical mounting blocks are black anodized aluminum.

**DESIGN:** The fluorometer shall provide rapid precise fluorescence measurements for accurate determination of concentrations of fluorescent materials. The meter shall have a self-nulling measurement system and a dualbeam optical system for sensitivity and stability. The meter shall meet the following requirements: Readout - 100 divisions, 0-100; Resolution - 0.5% of full scale; Linearity - within 1% f.s.; Light source range - 310-450 nm, 546 nm, 578 nm; Photomultiplier - 225-650 nm; Sensitivity - (ultimate using high sensitivity accessory) 3 ppb quinine sulfate, full scale deflection, detection limit, 15 parts per trillion; Filter holder - 5x5 cm x 1 cm thick (access inside sample compartment); Analog output - 0-1 m A, 0-10 m VDC 0-1 VDC, adjustable; Front controls - power switch, sensitivity control. Dimensions - 29.2x30.5x33 cm LxWxH. Power requirements 110/115/230/240 V AC, 50/60 Hz, 150 W.

All electrical components shall conform to the standards of Underwriters Laboratories, Incorporated.

**NOTE:** Items differing from this Military Standard by minor variations in design or dimensions are considered standard under this document, provided such variations do not affect performance and are not in conflict with the material requirements specified herein.

APPROVED 30 MAY 1983 REVISED

P.A.	EA	INTERNATIONAL INTEREST	TITLE	MILITARY STANDARD
Other Cust	MS 99		FLUOROMETER	MS51447
Procurement Specifications	NONE	SUPERSEDES:	SHEET	OF
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