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RM 500 Contamination meter

The RM500 contamination meter is a splash-proof battery-operated four-decade logarithmically-scale rate-meter covering the range 0.5 to 5000 counts per second.

The unit will operate with Geiger-Mueller-type probes, such as the HP-260 or with scintillation probes. Audio indication of count rate is provided by a small built-in loudspeaker. Speaker 'on/off' is selected by a rotary switch. Selection of probe type is by another five-position rotary switch which also provides 'on/off', 'battery test', and 'EHT display' functions.



When the Geiger-Mueller probe position is selected a G-M overload circuit is activated which prevents the meter needle from falling back to a low level if the count rate from the G-M tube becomes so high that the pulse heights become attenuated. If this is switched on, an alarm tone is given and extra current is fed to the meter to hold it at full scale. This circuit is not active in the scintillation probe position.

The EHT bias for the detector may be varied by a potentiometer in the battery compartment. When the 'EHT' switch position is selected, the EHT value is displayed on the meter. Connection to the probe is by a SHV connector.

Specification Detectors

G-M tube type or scintillation probe depending on selector switch position.

Input Sensitivity

50mV.

EHT

Adjustable from 300V to 1500V. The value is displayed on the meter when the switch is in the 'EHT' position.

Range

4-decade, logarithmically scaled from 0.5 to 5000 counts per second.

Meter

250° movement. Scale length 165mm

Accuracy

±20% of indicated reading at +20°C. ±35% of indicated reading from -10°C to +50°C.

WI Code: 10561

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The Defence
Manufacturers
Association



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Response Time

Specified as the time for the meter to reach 90% of final value after a step change of increasing or decreasing count rate of one decade.

1 to 10 counts = 5 seconds

10 to 100 counts = 2 seconds

100 to 1000 counts = 1.5 seconds

500 to 5000 counts = 1 second

Controls

Function Switch: Five-position switch giving the following functions: 'on/off', 'battery check', 'EHT', 'Scint', 'G-M'.

Alarm: Audio Switch: 3 positions.

Alarm

Set by push button switch and potentiometer in battery compartment indicating alarm setting on the meter.

Temperature Range

-10°C to +50C.

Batteries

2 x alkaline D size.

Battery Life

The batteries give 90 to 150 hours' operation dependent on EHT setting and probe used.

Dimensions

245mm x 120mm x 120mm.

Weight

1.6kg.

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