

TELESCOPIC SURVEY METER TL103M



- Auto ranging • Micro Controller Based • LCD Display • Digital reading • 0.01 μ Sv/h to 10Sv/h • Rugged S.S. Telescope • Anti-rotation groove to prevent wire twisting • Quick extension / retraction • Battery Voltage Measurement

SALIENT FEATURES



INTRODUCTION

Telescopic Survey Meter Type TL-103M has been designed to monitor nuclear radiation (Beta & Gamma) with a telescopic probe, to avoid personal exposure. GM Tubes are used in this instrument to measure radiation from 0.01 μ Sv/h to 9999 mSv/hr. Standard batteries provided for this instrument are alkaline R14 (UM-2U) size 1.5V cells. Digital display provides easy readability as compared to analog meter with multiple dials, of which meter needle may get sticky.

It is to be noted that telescopic probe of TL-103M is made up of S.S. against aluminium, SS has advantages of reduced sag, superior strength and easy decontamination. And it also has an anti-rotation groove to prevent twisting of wire. Further, while extending the telescope, user do not have to do any screwing/ locking of every section. This reduces time of extending retracting in emergency.

This microcontroller based instrument has auto ranging facility, so in emergency, user does not have to change the range. Also, battery voltage can be read on the display, so that its serviceability is ensured before hand.

CAT No.: TL103M/0622

PLA ELECTRO APPLIANCES PVT. LTD.

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TELESCOPIC SURVEY METER TL103M



TECHNICAL SPECIFICATIONS

Radiation Detected	: Beta (β) & Gamma (γ)
Detectors	: 2 Nos. GM Detectors: i) Low Range GM tube (Range: 0.01 μ Sv/h to 2.50 mSv/h) ii) High Range GM Tube (Range: 500 μ Sv/h to 9999 mSv/h)
Instrument Dimension	: 100cm approx. length when retracted & 400cm approx. length when extended
Telescope Material	: Stainless Steel
Telescope Extension / Retraction Method	: Quick & simple. No need to lock/screw each section to extend/retract Ideal for emergency action.
Wire Twist Prevention	: Wire twisting is prevented by not allowing rotation of telescope sections. It is achieved by providing an anti-rotation groove in each section.
GM Detector Protection	: In retracted condition, GM detector sits inside the telescope, saving it from any shock.
Ingress Protection	: IP54 if telescope completely pushed together and protection cap applied
Instrument Housing	: Aluminium Casting
Dose rate Range	: 0.01 μ Sv/h to 10Sv/h
Dose rate limit	: 100Sv/h
Response Time	: 2 to 3 sec approximately.
Energy Response	: 65KeV to 1.4MeV, \pm 45°
Accuracy	: \pm 15% (above 10 μ Sv/h) Ref: CS-137
Display	: 4 digits LCD (0.5") (illuminated)
Audio	: Buzzer provided
Batteries	: Leak proof 4 x 1.5Volts size R14(UM-2U) alkaline cells
Battery Compartment	: In handle of the instrument
Battery Voltage	
Measurement	: Available
Low Battery Indication	: Indicated on display
Weight	: 3.3 Kg. approx.
Temperature	: -20 to +60 °C
Carrying case	: Aluminum carrying case
Accessories	: Carrying belt

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