

HIGH / LOW DUAL RANGE SURVEY METER HAND HELD & TELESCOPING PROBE

Model Series ~ TBM-55

Models ~ TBM-55-L ~ TBM-55-HW ~ TBM-55-H

FEATURES:

- PRS-2S COMES WITH PROBE MOUNTING CLIP
- DUAL DETECTORS IN ONE UNIT
- 6 DIGIT DUAL DISPLAY
- BETA, GAMMA and X-RAY DETECTION
- LOW TO HIGH RANGE
- GM THIN SIDE WALL SENSORS
- PROBE CLIP
- ELECTRONICS - LIGHTWEIGHT, RUGGED
- **OPTIONAL** CARRYING CASE

TBM-55-L NO WAND -

WITH TELESCOPING WAND (TBM-55-L-TW)

- 4 DECADES - LOWER RANGE
 - WAND EXTENDS TO 5 ½ FEET
 - RETRACTS TO 9 INCHES
 - WAND 6 OUNCES

TBM-55-HW -

- 5 DECADES - HIGH WIDE RANGE

TBM-55-H -NO WAND -

WITH TELESCOPING WAND (TBM-55-H-TW)

- 4 DECADES - HIGH RANGE
 - WAND EXTENDS TO 10 ½ FEET;
 - RETRACTS TO 2 ½ FEET; CHOICE OF LENGTH
- **IP 64**



PRS-2S
ELECTRONICS



P-55
DUAL GM PROBE



TBM-55-L-TW & TBM-55-H-TW Probe
WITH TELESCOPING WAND

GENERAL DESCRIPTION:

The TBM-55 Series is a complete Low-to-High-range GM Beta – Gamma radiation detection system.

- P-55 – Dual GM detectors Low & High Range in one unit
- Digital Electronics with ruggedized meter readout; Battery operated.

Probe Options:

- High Range (**TBM-55-H**) with wand (**TBM-55-H-TW**)
- Lower Range (**TBM-55-L**) with wand (**TBM-55-L-TW**)
- Extendable wand with P-55 dual detectors in one unit – (**TW**).

Telescoping wand models are lightweight and compact providing easy transport and use



TECHNICAL ASSOCIATES

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DIVISION OF



OTCOB-UCLC

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SPECIFICATIONS

Ranges:

TBM-55-L	DIGITAL Lower Range Beta-Gamma, PRS-2 Electronics. 0-5, 50, 500 mR/hr; 5, 50 R/hr. Lower Range (4) Decades
TBM-55-HW .	DIGITAL The thousand R High Wide Range Beta-Gamma, PRS-2 Electronics. 0-0.1, 1, 10, 1000 R/hr. 5 μ R/h to 10 R/h (0.05 μ Sv/h to 100 mSv/h) High Wide Range (5) Decades
TBM-55-H	DIGITAL The thousand R High Range Beta-Gamma PRS-2 Electronics. 0-0.1, 1, 10, 1000 R/hr. High Range (4) Decades
TBM-55-L-TW	DIGITAL Lower Range Beta-Gamma, PRS-2 Electronics. 0-5, 50, 500 mR/hr; 5, 50 R/hr. Telescoping Wand. Extends to 5.5 feet, Weight 6 ounces Lower Range (4) Decades
TBM-55-H-TW .	DIGITAL The thousand R High Range Beta-Gamma PRS-2 Electronics. 0-0.1, 1, 10, 1000 R/hr. Telescoping Wand. Comes with (2) wands (1) Extends to 5.5 feet, Weight 6 ounces. (1) Extends to 10.5 feet, Weight 24 ounces. High Range (4) Decades
TBM ECS	Energy Compensated Sleeve

Energies Detected:

- Gamma:** All energies above 15 KeV to 1.5 MeV
- Energy Dependence:** With **optional** energy compensation sleeve (**removable**), 20%, 80 KeV to 1.25 MeV.
- Beta:** Above 0.2 MeV.
- Beta Efficient:** 0.3 MeV 45%
- 1 MeV 75%
 - 2 MeV 85%
 - 3 MeV > 90%



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Telescoping Wand:

Extendable Length:
TBM-55-L-TW 5 ½ feet (167.6 cm)

Retracted Length:
TBM-55-L-TW 9 inches (22.8 cm)

Total Weight:
TBM-55-L-TW 2 lbs. (0.9 kg)

Extendable Length:
TBM-55-H-TW 10 ½ feet (320 cm)

Retracted Length:
TBM-55 H-TW 2 ½ feet (76 cm)

Total Weight:
TBM-55 H-TW 3 ½ lbs. (1.58 kg)

Replacements: Reasonably priced replacement parts are readily available from T/A:

- Extendible Probe Holder
- Detector Cable

Thin side wall GM sensors

- High Range (TBM-55-H)
- High Wide Range (TBM-55-HW)
- Lower Range (TBM-55-L)

PRS-2S DIGITAL ELECTRONICS (TBM-55 Series)

Detector: Mates with GM Probes or scintillation detectors.
Detector connector: BNC - Standard
Detector Bias Supply: 400 V DC to 1200 V regulated and filtered - other voltage levels-optional.

PRS-2S: Reads out from 2 separate probes simultaneously
No energy discrimination

Alarm: Audio / Visual, Low Battery Warning

Temperature: -10 C° to 40° C

Power: Batteries: 6 AA cells.

Battery Life: 100 hours with Alkaline cells (200 hours with - Lithium cells).

Construction: All plug-in circuit cards, essentially no wires. Rugged, lightweight

Dimensions: 3-1/4" H, 4-1/4 W, 7-1/4" long excluding probe.

Weight: 2 lbs.

OPTIONAL: Rechargeable batteries and charger

OPTIONAL: RS232 or USB port

OPTIONAL: Tablet and Software



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