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**Ludlum  
Model 17 Ion Chamber  
PART NUMBER:48-1753**

- **4 Ranges**
- **Retractable Beta Shield**
- **Total Counting Range from 0 - 50,000 mR/hr**
- **Built-In Audio**



Bottom View  
Of Model 17



**INDICATED USE:** General purpose survey

**CHAMBER CONSTRUCTION:** Carbon coated acrylic

**CHAMBER VOLUME:** 78 cm<sup>3</sup>

**WINDOW:** 7 mg/cm<sup>2</sup> aluminized mylar

**WINDOW AREA:** Active - 40 cm<sup>2</sup>

Open - 30 cm<sup>2</sup>

**BETA SHIELD:** Retractable 211 mg/cm<sup>2</sup> phenolic slide

**ENERGY RESPONSE:** Within plus or minus 20% of true value from 10 keV - 2 MeV

**BETA FACTOR:** 2.6 with uranium slab

**AUDIO:** Built in unimorph speaker with ON/OFF switch

**METER DIAL:** 0 - 50 mR/hr, BAT TEST

**MULTIPLIERS:** X1, X10, X100, X1000

**LINEARITY:** Reading within plus or minus 10% of true value

**CALIBRATION CONTROLS:** Accessible from front of instrument (*protective cover provided*)

**RESPONSE:** Typically 3 seconds from 10% to 90% of final reading

**RESET:** Push-button to discharge chamber and zero meter

**ZERO ADJUST:** 3 turn potentiometer

**WARM UP TIME:** Approximately 5 minutes

**POWER:** 2 each "D" cell batteries (*housed in sealed compartment that is accessible from front of instrument*)

**BATTERY LIFE:** Greater than 200 hours with alkaline batteries (*battery condition can be checked on meter*)

**METER:** 2.5" (6.4 cm) arc, 1 mA analog type

**CONSTRUCTION:** Cast and drawn aluminum with beige polyurethane enamel paint

**TEMPERATURE RANGE:** -4° F(-20° C) to 122° F(50° C)

May be certified for operation from -40° F(-40° C) to 150° F(65° C)

**SIZE:** 7" (17.8 cm)H X 3.5" (8.9 cm)W X 8.5" (21.6 cm)L

**WEIGHT:** 4 lbs (1.8 kg) including batteries