

Model 2350-1

General Purpose Ratemeter/Scaler/Data Logger

Radiation Detection for a Safer World



Ludlum Measurements, Inc.

Features

- Large Digital Display
- Auto-ranging
- Stores 1000 Data Points
- Overload Protection
- Wide Range High Voltage
- Stores 16 Detector Parameter Setups
- Separate Alarms for Ratemeter, Scaler, & Integrated Dose



Part Number: 48-2751

Specifications

INDICATED USE: field analysis and data logging

SUGGESTED DETECTORS: Geiger-Mueller (GM), proportional, and/or scintillation; will store up to 16 detector setups

DISPLAY: 8-line LCD display with 15 characters per line

BACKLIGHT: 2-position toggle switch to turn backlight ON or OFF

SCALER: 6-digit display

RATEMETER: digital ratemeter, corrected for dead time and calibration constant

TIMER: used in conjunction with scaler. Count time can be set from 1 to 65,535 seconds in 1-second intervals.

TREND INDICATOR: 5-decade logarithmic bar graph

SCALE: can display in rem/hr, Sv/h, R/hr, cpm, cps, dpm, dps, rad(r), Gray(G), C/kg, Ci/cm², or Bq/cm²

INTEGRATED DOSE: counter provided total accumulated dose for up to 45 days (will display in same units as ratemeter)

AUDIO: built-in unimorph speaker with volume control (greater than 60 dB at 0.61 m {2 ft}, full volume)

AUDIO DIVIDE: operator-selected divisions of 1, 10, or 100 events per click

ALARM: separate alarms for digital ratemeter, scaler, and integrated dose can be set at any point (audible and visual indicators)

ACK/SCROLL: pushbutton to silence audio after alarm has been indicated and/or scroll through the various displays

DATA LOGGER: capable of logging up to 1000 individual data points with the following identifiers for each point: eight Location codes (5 character); time of day; month, day, and year; detector number, count rate/scaler count/integrated dose; count time; logging mode; sample number

DETECTOR PARAMETERS: capable of storing the following parameters for 16 different detectors: model number; serial number; calibration constant; dead time correction; high voltage; threshold; window; display range multiplier; display time base; display units; overload current; ratemeter alarm setting; scaler alarm setting; scaler count time, integrated dose alarm setting

RS-232 PORT: full duplex communication port that allows for instrument setup by optional keypad or PC, also allows for data to be transferred to a PC file

BAR CODE READER (optional): allows for setup of instrument by computer generated bar codes

HIGH VOLTAGE: adjustable from 400 to 2500 volts

THRESHOLD: adjustable from -100 to -1000

WINDOW: adjustable from 0 to 1000 above threshold

GAIN: adjustable from 2 to 350 mV at threshold setting of 100

DEAD TIME: adjustable to compensate for dead time of detector and electronics

RESPONSE:

FIXED: adjustable from 1 to 127 seconds in 1-second intervals

VARIABLE: varies according to number of counts, typical times FAST: 4-25 seconds, SLOW: 4 to 60 seconds from 10% to 90% of final reading

TEMPERATURE RANGE: 0 to 50 °C (32 to 122 °F) (LCD display limits temperature range)

POWER: 4 "D" cell batteries (housed in a sealed compartment that is accessible from back of instrument)

BATTERY LIFE: greater than 75 hours (low battery condition is automatically indicated)

SIZE: 14.2 x 11 x 22 cm (5.6 x 4.3 x 8.8 in.) (H x W x L) without handle, 20.9 cm (8.2 in.) (H) with handle

WEIGHT: 2.4 kg (5.2 lb), including batteries