

General Purpose Ratemeter/Scaler/Data Logger - Model 2350-1

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Specifications

INDICATED USE: field analysis and data logging

SUGGESTED DETECTORS: GM, proportional, scintillation. Stores 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

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

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

TREND INDICATOR: 5-decade logarithmic bar graph

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

INTEGRATED DOSE: Counter provided to give total accumulated dose for up to 45 days (Will display in same units as ratemeter.).

AUDIO: built-in unimorph speaker with volume control

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: 8 Location codes (5 character); Time of day; Month, Day, and Year; Count rate/scaler count/integrated dose; Count time; Detector number; 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; Low ratemeter alarm setting; Integrated dose alarm setting; Scaler count time

RS-232 PORT: a 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 200-2500 volts

THRESHOLD: Adjustable

WINDOW: adjustable

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

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

RESPONSE:

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

VARIABLE: will vary according to number of counts present. Typical times FAST: 4-25 seconds, SLOW: 4-60 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

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

SIZE: 15 x 11 x 22 cm (6 x 4.3 x 8.8 in.) (H x W x L)

WEIGHT: 2.3 kg (5 lb) including batteries

