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

Radiation Detection for a Safer World

Features

- **Large Digital Display**
- **Stores 1000 Data Points**
- **Auto-ranging**
- **Stores 16 Detector Setups**
- **Overload Protection**
- **Alarms**
- **Wide Range High Voltage**

Specifications

Part Number: 48-2751

INDICATED USE: field analysis and data logging
SUGGESTED DETECTORS: GM, proportional, 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
TIMER: used in conjunction with scaler. Count time can be set from 1 to 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/h, R/hr, cpm, cps, dpm, dps, rad(r), Gray(G), C/kg, Ci/cm^2, or Bq/cm^2
INTEGRATED DOSE: counter provides 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, & 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 400 to 2500 volts
THRESHOLD: adjustable
WINDOW: adjustable
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
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: 2.3 kg (5 lb) including batteries