

MODEL 2242 Digital Scaler/Ratemeter



Ludlum Measurements, Inc.

INDICATED USE: Hazard assessment, emergency response
DETECTORS: Internal energy-compensated GM detectors
ALERT/ALARM: Indicated by annunciator on display and audible tone
DISPLAY: 4 digit LCD display with 0.5"(1.3cm) high digits, separate annunciators for display units, alert, alarm, low battery, detector overload
BACKLIGHT: Push-button to activate
EFFECTIVE RANGE: Low 0.1 mR/hr - 999.9 mR/hr
High 0.1 R/hr - 999.9 R/hr
HIGH VOLTAGE: Two independent controls; each adjustable from 200 - 2500 volts
DISCRIMINATOR: Two independent controls; each adjustable from 2 - 100 mV
OVERLOAD: Indicated by OVERLOAD on display
BATTERY LIFE: Typically 200 hours with alkaline batteries
(24 hours when low battery is first indicated on display)
SIZE: 6.5"(16.5cm)H X 3.5"(8.9cm)W X 8.5"(21.6cm)L
WEIGHT: 3.5 lbs (1.6kg) including batteries
RESPONSE TIME: < 4 seconds at 10 mR/hr



Part Number: 48-3437

The following parameters are adjusted by a removable switchboard. Once initial setup and calibration have been completed the switchboard can be removed without affecting normal operation of the instrument (Model 2242 may be ordered without switchboard)

BACKLIGHT "ON" TIME: 5, 30, 60, 90, 180, or 240 seconds for the backlight to stay "ON" when activated.
RS-232 DATA DUMP MODE: Enables or disables dump mode to RS-232 port. When enabled data will be dumped every 2 seconds
RS-232 DETECTOR SETUP MODE: Allows for detector parameters to be input by RS-232 port
BAUD RATE: 150, 300, 600, 1200, 2400, 4800, 9600, or 19200 bps.
DEAD TIME: Adjustable from 0 - 9999 μ seconds
CALIBRATION CONSTANT: Adjustable from 0.001 - 280×10^9 counts/display unit
AUDIO DIVIDE: 1, 10, 100, or 1000 events-per-click
RATEMETER ALERT/ALARM: Set at any value within the effective range of each detector
LINEARITY: Reading within $\pm 10\%$ of true value with detector connected
AUDIO: Built in unimorph speaker with ON/OFF switch (*greater than 60 dB at 2 feet*)
CALIBRATION CONTROLS: Accessible from front of instrument (*protective cover provided*)
RESET: Push-button to zero meter
POWER: 2 each "D" cell batteries (*housed in sealed compartment that is externally accessible*)
METER: 2.5" (6.4 cm) arc, 1 mA anlog type
CONSTRUCTION: Aluminum housing with beige powder coat paint
TEMPERATURE RANGE: -22 F (-30C) to 122 F (50C)
HUMIDITY: Less than 10% variance in reading from 5%-95% humidity