

MODEL 2241-2 Digital Survey Meter

PART NUMBER:48-2731

- **Digital LED Display with Backlight**
- **Auto-Ranging**
- **Built-In Scaler**
- **Alert and Alarm**
- **2 Independent Detector Set-ups**
- **Utilizes G-M, Proportional, and Scintillation Detectors**
- **RS-232 Data Dump**



INDICATED USE: General purpose survey, gross counting

COMPATIBLE DETECTORS: G-M, proportional, scintillation

DET1/DET2: A locking toggle switch to allow for quick change between two detector setups

CONNECTOR: Series "C" (*others available on request*)

AUDIO: Built in unimorph speaker with ON/OFF switch (*greater than 60 dB at 2 feet*)

ALERT/ALARM: Indicated by enunciator on display and audible tone

DISPLAY: 4 digit LCD display with 0.5"(1.3cm) high digits, separate enunciators for display units, alert, alarm, low battery, detector overload, counting overflow, and scaler counting

BACKLIGHT: Push-button to activate

RATEMETER: Can display in R/hr, Sv/hr, cpm, or cps when control switch is in RATEMETER position

DISPLAY RANGE: Auto ranging from 0.0 microR/hr - 9999 R/hr; 0.000 microSv/hr - 9999 Sv/hr; 0 cpm - 999k cpm; or 0 cps - 100k cps

LINEARITY: Reading within plus or minus 10% of true value with detector connected

SCALER: Activated by push-button in handle (*count time adjustable from 1 - 9999 seconds in 1 second intervals*)

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

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 (*adjustable depending on detector selected*)

RESET: Push-button to zero display, acknowledge and/or reset alarm

POWER: 2 each "D" cell batteries (*housed in sealed compartment that is externally accessible*)

BATTERY LIFE: Typically 200 hours with alkaline batteries (*24 hours when low battery is first indicated on display*)

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: 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

The following parameters are adjusted by removable switchboard. Once initial setup and calibration have been completed the switchboard can be removed without affecting

normal operation of the instrument (Model 2241-2 may be ordered without switchboard)

BACKLIGHT "ON" TIME: 5, 30, 60, 90, 180, or 240 seconds for the backlight to stay "ON" when activated.

SET MINIMUM DISPLAY: Allows lower limit of auto-ranging display to be fixed. For example, display can be set to not show values less than 1 R/hr.

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 seconds

CALIBRATION CONSTANT: Adjustable from 0.001 - 280 X 10⁹ counts/display unit

DISPLAY UNITS: Can read in R/hr, Sv/hr, cpm, or cps

TIME BASE: Can read in seconds or minutes

AUDIO DIVIDE: 1, 10, 100, or 1000 events-per-click

RESPONSE:

Fixed: FAST response time adjustable from approximately 2 - 50 seconds. SLOW response is 5 times fast setting

Variable: Dependent on number of counts present. Typical times FAST - 4 - 25 seconds, SLOW - 4-60 seconds

(All times stated from 10% to 90% of final reading)

RATEMETER ALERT/ALARM: Set at any point corresponding to pre-selected ratemeter range

SCALER ALARM: Adjustable from 1 - 999999 counts

SCALER COUNT TIME: Adjustable from 1 - 9999 seconds

For Alpha Measurements	For Beta Measurements	For Gamma Measurements	For Alpha/beta/gamma Measurements
<u>Model 43-1</u>	Model 43-20	<u>Model 44-2</u>	<u>Model 44-7</u>
<u>Model 43-2</u>	<u>Model 43-68</u>	<u>Model 44-3</u>	<u>Model 44-9</u>
Model 43-5	Model 44-1	<u>Model 44-6</u>	<u>Model 44-88</u>
Model 43-20	<u>Model 44-6</u>	<u>Model 44-7</u>	<u>Model 44-89</u>
Model 43-44	<u>Model 44-7</u>	<u>Model 44-9</u>	<u>Model 44-94</u>
Model 43-44-1	<u>Model 44-9</u>	<u>Model 44-10</u>	
Model 43-65	<u>Model 44-21</u>	Model 44-17	
<u>Model 43-68</u>	<u>Model 44-38</u>	<u>Model 44-20</u>	
Model 43-90	<u>Model 44-88</u>	<u>Model 44-21</u>	
<u>Model 44-7</u>	<u>Model 44-89</u>	<u>Model 44-38</u>	
<u>Model 44-9</u>	<u>Model 44-92</u>	<u>Model 44-62</u>	
<u>Model 44-88</u>	<u>Model 44-94</u>		
<u>Model 44-89</u>	Model 44-98		
<u>Model 44-94</u>	Model 44-116		

Model 2241 Series Digital Display

Accessories

- [Check Source](#)
- [Source Holder](#)
- [Headset](#)
- [Shoulder Strap](#)
- [Standard Carrying Case](#)
- [Air and Water Tight Carrying Case](#)

Replacement Parts

- [Cable](#)
- [Meter Bezel](#)
- [LCD Display](#)
- [Handle](#)
- [Probe Clip](#)

[Ordering Info.](#) [Manual](#) [Technical Info.](#)



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Page last updated: July 2007*