Model 26
Frisker

Radiation Detection for a Safer World

Features

- Integrated, Lightweight Design Simplifies Frisking
- Protective Rubber Covering Enhances Ruggedness, Water Resistance, and Non-Slip Comfort
- Employs Standard 15 cm² GM Pancake Detector
- Ratemeter, Peak, and Scaler Operating Modes
- Simple Two-Button Operation
- Count Rate and Scaler Alarms

Part Number: 48-3885

Ludlum Measurements, Inc.

Introduction

Frisking people and objects for alpha & beta contamination has always been a little awkward because manipulation of the cable, detector, and electronics required the use of both hands. The new cable-less Ludlum Model 26 consolidates the electronics and the detector into one ergonomic housing. This optimized configuration incorporates a standard 15 cm² GM pancake probe, loud audio "click" output, and large auto-ranging LCD display with automatic back lighting into one convenient package, making it easier than ever to detect contamination.

Operation is kept extremely simple through the use of just two buttons. A useful feature employed in the design is the MAX mode, which captures the highest or peak count rate. It is particularly convenient whenever the display is not directly visible. The scaler mode, with a preset count time, allows the user to take a discrete measurement. This system also incorporates low power circuitry, delivering hundreds of hours of use with just two standard "AA" size batteries. The calibrator can protect parameters (cps/cpm, response time, alarm points, & scaler time) or allow the user to adjust them.

Specifications

DETECTOR: pancake GM (Geiger-Mueller) detector, stainless steel screen

WINDOW AREA: Active: 15 cm² (2.3 in²); Open: 12.2 cm² (1.9 in²)

EFFICIENCY (4 π): Alpha: 15% for ^{239}Pu; Beta: 19% for ^{99}Tc; 32% for ^{32}P
Gamma: 3300 cpm/mR/hr or 5.5 cps/µSv/hr (^{137}Cs)

ALARMS: count rate and scaler alarm setpoints adjustable over the display range

OVERLOAD: high count rate saturation protection prevents false display of lower count rates

ZERO PROTECTION: after 60 seconds of no pulses from detector, unit will flash a zero reading and the alarm audio will be triggered

LCD DISPLAY: 3½ digit LCD with large 12.7 mm (0.5 in.) digits, (k)cps, (k)cpm, low-battery indicator, MAX, ALARM

RANGE: 0.1 cps to 1.99 kcps, or 1 cpm to 99.9 kcpm

BACKLIGHT: built-in ambient light sensor automatically activates low-power LED backlight, or may be configured for 'Continuous On' operations (will reduce battery life)

CONTROLS: two pushbuttons
- ON/OFF/QUIET: press to turn ON, tap to alternate between 'click' audio and QUIET, hold for OFF
- MODE: alternates between NORMAL (count rate) and MAX (captures peak rate), and SCALER (user-selectable preset count time from 0 to 20 minutes)

RESPONSE TIME: user-selectable from 1 to 60 seconds, or Auto-Response Rate FAST or SLOW

CLICK AUDIO: greater than 60 dB at 0.6 m (2 ft)

POWER: two "AA" batteries

BATTERY LIFE: approximately 1000 hours of operations (as low as 500 hours with backlight configured for 'Continous On'), 16-hour low battery warning

CONSTRUCTION: high-impact plastic with separate battery compartment

SIZE: 4.6 x 6.9 x 27.2 cm (1.8 x 2.7 x 10.7 in.) (H x W x L)

WEIGHT: 0.45 kg (1.0 lb)