Model 2000 General Purpose Scaler

(front and back panels)

Features

- Self-Contained, General Purpose Scaler
- Supports Wide Range of External Detectors
- 95–250 Vac Power Input
- Portable Battery Operation
- RS-232 Interface to Printer or PC
- LED readout and Analog Dial



Introduction

counting samples. Rugged design and construction facilitates counting in seconds rather than minutes, if desired. accommodates both benchtop and portable applications. The Other front-panel controls include a start-count button, an wide-ranging AC power supply and internal batteries are HV/Bat switch for displaying the current value on the capable of powering the instrument upwards of 120 hours. The accompanying analog meter, and a three-way switch for Model 2000 supports GM, proportional, and scintillator type selecting Power Off, Battery, or Line Power. An RS-232 port on detectors, and provides fine adjustment controls for setting the the rear panel allows connection to a PC or printer as set by a high-voltage and threshold settings. The scaler reading is rear mounted switch (a RS-232 to USB adapter cable is presented on a digital, six-digit readout LED that can be set to included). When connected to a PC, the counting may be count from 0.1 to 999

The Model 2000 is a general purpose scaler typically used for minutes via a front-panel dip switch. An internal switch controlled and results recorded via application software.

Specifications

Part Number: 48-1648

INDICATED USE: gross counting SUGGESTED DETECTORS: GM, scintillation, proportional SCALER: six-digit LED display with a range of 0-999999 counts SCALER LINEARITY: reading within 2% of true value TIMER: push-wheel adjustment from 0-999 minutes with selectable X0.1 and X1 multipliers METER: 1 mA, 6.4 cm (2.5 in.) arc, self shielded DC mechanism, analog type displaying 0 to 2.5 kV HIGH VOLTAGE: adjustable from 200-2500 volts (will support 60 megohm scintillation loads) THRESHOLD: adjustable from 1.0-10.0 DISCRIMINATOR: adjustable from 2-100 mV **CONNECTOR**: series "C" (others available) DATA OUTPUT: 9-pin RS-232 port for connection to PC for data download. A one meter RS-232 to USB adapter cable is included. PC interface software is available for download on our website. POWER: 95-250 Vac 50-60 Hz or four "D" cell batteries (housed in externally accessible compartments) BATTERY LIFE: typically 120 hours with alkaline batteries (battery condition can be checked on meter) **CONSTRUCTION:** aluminum housing with beige powder coat paint, sub-surface printed front panel TEMPERATURE RANGE: -20 to 50 °C (-4 to 122 °F) SIZE: 21.6 x 12.7 x 23.5 cm (8.5 x 5 x 9.3 in.) (H x W x L) WEIGHT: 3.1 kg (6.9 lb) without batteries

Options:

Printer: 40-column, serial-input impact printer records results of each scaler count, can be configured to print the time/date with each scaler count. Cable and adapter are supplied to fit any IBM-compatible PC's 9- or 25-pin serial port(P/N 4167-386) Sample Counter Head Model 180-8: painted lead housing with choice of five preset spacings (P/N 47-1549) Sample Planchets: 5.1 cm (2 in.) x 3.2 mm (0.125 in.) sample planchets in stainless steel (P/N 7525-371-01) or aluminum (P/N 7525-371); minimum order of 500

DETECTION