

Multi Detector (emergency response & NORM kit) : 3001-2RK



The kit 3001-2RK is composed of two dependable, high-quality detectors matched with the versatile Model 3001 survey meter and packaged in a rugged transport and storage case. The kit includes the Model 44-9 alpha-beta-gamma detector for general survey measurements and the Model 44-2 high-sensitivity gamma detector for locating the source of high readings. The kit also includes a 1 μCi (^{137}Cs) check source, check source holder, cable, and batteries, making this kit ready-to-go for emergency response or NORM applications.

Features

- A Ready-to-Go Kit
- Ergonomic Survey Meter with 4 Selectable and onfigurable Detector Settings
- Measures Alpha, Beta, and Gamma Contamination
- Convenient In-Field Detector Switching

Specifications



ALARMS: count rate, exposure/dose, and scaler alarm setpoints adjustable over the display range

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

LOSS OF COUNT ALARM: after preselected time interval (default 60 seconds) of no pulses from detector, audible and visual alarms will be activated

LCD DISPLAY: 3 digit LCD with 20 mm (0.8 in.) digits, (k)cps, (k)cpm, (k)Bq, (k)dpm, (μ)(m)R/h, (μ)(m)Sv/h, low-battery indicator, MAX, ALARM, AUDIO

DISPLAY RANGE: 0.0 cps to 99.9 kcps; 0.00 cpm to 999 kcpm; 0.00 Bq to 99.9 kBq; 0.00 dpm to 999 kdpm; 0.00 μR/h to 999 R/h; 0.00 μSv/h to 999 Sv/h.

Max Display can be set to limit display to calibrated range

BACKLIGHT: built-in ambient light sensor automatically activates LED backlight, unless internal dipswitch is set to continuous-On (will reduce battery life)

USER CONTROLS

- ON/ACK: press to turn ON, tap to acknowledge alarms and silence alarm tone, press to reset Sigma Audio alarm, hold for OFF
- MODE: select NORMAL (count rate), MAX (captures peak rate), and COUNT (user-selectable preset count time from 0 to 10 minutes).
- DETECTOR: selects active detector
- UNITS: changes the units between count rate (cpm, cps), dose/exposure (μSv/h, mR/h), or disintegration (dpm, Bq)

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

AUDIO: greater than 75 dB at 0.6 m (2 ft)

POWER: four alkaline or four rechargeable "AA" batteries (no in-device charging)

BATTERY LIFE: 500 hours (as low as 100 hours with backlight configured for continuous-on), 16-hour low battery warning

CONSTRUCTION: high-impact plastic with water-resistant rubber seals and separate battery compartment

ENVIRONMENTAL RATING: NEMA rating of 4x or IP rating of 65

SIZE (H x W x L): 16.5 x 11.4 x 21.6 cm (6.5 x 4.5 x 8.5 in.)

WEIGHT: 0.9 kg (2.0 lb)



DETECTOR: scintillator, 2.5 x 2.5 cm (1 x 1 in.) NaI(Tl)
EFFICIENCY: ¹²⁵I for 7%; ⁵⁷Co for 10%; ¹³⁷Cs for 3%; ⁶⁰Co for 3%

SENSITIVITY: typically 175 cpm/μR/hr (¹³⁷Cs gamma)



DETECTOR: pancake-type, halogen-quenched GM
EFFICIENCY (4π): 5% for ¹⁴C; 22% for ⁹⁰Sr/⁹⁰Y; 19% for ⁹⁹Tc; < 1% for ^{99m}Tc, 32% for ³²P; 1% for ²³⁹Pu
SENSITIVITY (¹³⁷Cs gamma): 3300 cpm/mR/hr



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