

PYCKO SCIENTIFIC LIMITED

31 London Road, Grantham, NG31 6EX
Telephone 01476 401992
e-mail: bill@pycko.co.uk
www.pycko.co.uk

Your Alternative
To The Obvious

Model 52-1 Portable Portal Monitor

Although not as sensitive as hand held instrumentations or installed instrumentation in nuclear facilities, these units are to be used to rapidly screen large numbers of persons in the event of radiological incident.

Following evaluation by the Health Protection Agency (HPA) of current models of Portable Portal Monitors, they purchased a number of Model 52-1 units.

The 52-1 has a number of key features:

- ✓ Easily assembled in a few minutes.
- ✓ The case easily fits in an estate car.
- ✓ Sensitive to both gamma and beta emitters.
- ✓ Easy to use and understand.

Also along with these features we were also willing to carry out modifications such as enhanced beta response, changes in read out etc. to meet customers expectations.

If you should wish to discuss this instrument further don't hesitate to contact us.

MODEL 52-1 PORTABLE PORTAL MONITOR

- ***Portable***
- ***Plastic Scintillation Detectors***
- ***Assembles or Disassembles
in less than 5 Minutes***
- ***Carrying Case Included***



INDICATED USE: Portable personnel monitoring (*NOTE: This instrument is portable and can be assembled or disassembled in less than 5 minutes. Carrying case is included*)

DETECTORS: 4 ea. 168 in³ (2753 cc) plastic scintillators for a total volume of 672 in³ (11,012 cc)

THRESHOLD: 4 ± 1 mV

DISPLAY: 2 line X 20 character LCD shows background rates from all detectors, and sigma values above background. To extend battery life, the LCD backlight on the display has been configured to go OFF when the instrument is on battery power.

ALARM: Indicated by red LED, and audible signal (*greater than 60 dB at 2 feet*)

COUNT TIME: Adjustable from 0 - 20 seconds (*0 second setting is for walk through mode*)

ENTER/CHECKING: (*green LED*) Indicates system is ready for use. Flashing LED indicates a count is in progress.

INCOMPLETE/UPDATING: (*amber LED*) Indicates the user has stepped out of the portal before counting was completed, or that an update is in progress.

FAILURE: (*red LED*) Indicates a high or low background

INFRARED SENSOR: A retro-reflective sensor senses portal occupancy

PARAMETERS: All parameters are stored in non-volatile memory

OUTPUT: RS-232 output for printer and relay output connectors located on the bottom of the electronics chassis

POWER: 85 - 250 VAC, 50 - 60 Hz single phase (*less than 100 mA*); or 3 ea. "D" cell batteries.

BATTERY LIFE: Typically 24 hours in a non-alarm condition

CONSTRUCTION: Aluminium housing with beige polyurethane enamel paint

TEMPERATURE RANGE: -4° F(-20°C) to 122° F(50° C)

SIZE: 83"(211cm)H X 28"(71cm)W X 18"(46cm)D

PORTAL DIMENSIONS: 81"(206cm)H X 24"(61cm)W

WEIGHT: 70 lbs (32kg)

SHIPPING WEIGHT: 100 lbs (45kg)