

## PORTABLE CONTAMINATION AND RADIATION MONITOR

## FOR DETECTION OF $\alpha$ , $\beta$ AND $\gamma$ SURFACE CONTAMINATION

- ALPHA-, BETA-, AND GAMMA SENSITIVITY, SELECTIVE DETECTION
- ONE DETECTOR, LARGE AREA
- EFFICIENT FOR VARIOUS NUCLIDES
- SCINTILLATION PROBE
- NO COUNTING GAS



CoMo 170 is a portable contamination monitor for  $\alpha$ ,  $\beta$  and  $\gamma$  surface contamination. The detected events are counted over time and displayed digitally in c/s, Bq or Bq/cm². Measurement results can be stored and transferred by RS 232 C.



CoMo 170 is using 2 scintillator materials: ZnS for detection of alpha-radiation, plastic scintillator foil for detection of beta- and gamma-radiation. The large area detector window is permeable for low energy alpha radiation like <sup>238</sup>U, beta radiation like <sup>14</sup>C. The thin window can be replaced easily by the user and measurements can be continued without delay. The light flashes generated by the alpha or beta/gamma radiation can be separated by pulse analysis. Nuclide specific sensitivity is calculated and alarm values are preprogrammed.

Efficiency for various nuclides

° 14C: 14% ° 32P: 25%

° 38CI: 42%

° 18F: 18%

Etc.



## **Technical specifications**

Detector type thin layer plastic scintillator with ZnS coating

Detector size 170 cm<sup>2</sup>

Background alpha 0.1 c/s - beta 15-25 c/s

Background subtraction adjustable background measurement time

Measurements electr. µ-controller supported electronics

Keyboard foil keyboard 5 function keys

Alarm acoustic alarm, separately adjustable for each nuclide

Result display 25 nuclides, preset calibration factors, user specific nuclides

may be added, integrated auto-calibration

Measurement time continuous, for stationary application,

adjustable in seconds

Display large area graphical LCD display, 128 x 64 pixels

with adjustable illumination duration

Power supply 2 AA Mignon or rechargeable batteries (can be charged

by charge unit in stationary mode via wall station with

inductive charge conservation)

Operating conditions -10 to +40 °C, no condensation

Interface RS232C

## Physical specifications

Dimensions W280 × D125 × H135mm (W9,19" × D4,01" × H4,43")

Weight 0,75 kg (1,65 lbs)



Email: Website: Headquarters: