innovation in Radiation Monitor design

Hand Held Multi-Channel Analyzer

mMCA-430

Compact, 256 channel MCA with neutron counter

Description

TSA's model mMCA-430 hand held monitor combines a full-function, 256-channel field grade multi-channel analyzer and neutron counter in one compact unit. The monitor is simple to operate and can be set up and run using the internal keypad or its Windows™ based communications program. Internal, battery backed RAM provides adequate capacity to store a typical day's data collection.

The mMCA-430 is available with a rechargeable lead-acid battery and universal input battery charger. The rechargeable version is somewhat larger and heavier than the standard instrument.

For ease of use, data can be displayed digitally or graphically on screen. A compact graphics display provides a quick view of the spectrum. The PC program permits more detailed viewing capabilities. Data may be exported in a comma separated variable format for use by other software programs. To save battery power, the mMCA-430 automatically defaults to a "power-save" mode when it is inactive.

Specifications

Model mMCA-430 SPECIFICATIONS

- DETECTORS: One, gamma: 1" diameter x 2" (2.5 x 5cm) Nal(Tl).
- DISPLAY: LCD, 0.8"h x 2.1"w, (2 x 5cm) 32 x 128 pixel
- COMMUNICATIONS: RS-232 communications capability, 9600bps; Windows™ based software
- DATA STORAGE: 159 gamma spectra and neutron counts
- POWER REQUIREMENTS: Standard: Six, "AA" size alkaline cells will provide a minimum of 8 hours of operation
  Rechargeable: The lead-acid battery will provide a minimum of 12 hours of operation. A universal input power supply/battery charger is included with this option. Recharge time is typically 16 hours.
- DIMENSIONS: Standard: 10"h x 4.75"w x 3"d (25 x 12 x 8cm)
  Rechargeable: 9.5"h x 4.75"w x 4"d (24 x 12 x 10cm)
- WEIGHT: Standard: 3 lb (1.4kg)
  Rechargable: 5 lb (2.3kg)
- ENVIRONMENTAL: 32° to 100°F (0° to 38°C)
- OPTIONAL COMPONENTS: Internal neutron detector, 1" diameter x 0.2" (2.5 x 0.5cm) LiI(Eu).

Applications

The mMCA-430, with its unique combination of internal detectors, can quickly confirm the presence of SNM. For applications that do not require neutron counting, the basic instrument serves as an inexpensive, field-grade gamma MCA.

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