Model ICS-4000
Radionuclide Identifier

Radiation Detection for a Safer World

Features
- Dual Analysis Capability
- Multiple Modes of Operation
- Lightweight, Easy to Use
- Rugged & Reliable
- Auto-Ranging
- Audible & Visual Alarms
- Easy Access to Data Files
- User-Settable Alarms

Introduction
The Model ICS-4000 Radionuclide Identifier is a hand-held gamma-ray spectrometer that combines a multichannel analyzer with a high resolution cadmium telluride detector. It automatically analyzes gamma ray spectra and reports both detected radionuclides and dose rates. Time and radiation levels are logged for each alarm. An LCD backlight and large, tactile buttons allow easy operation even in dark or brightly lit areas or while wearing heavy gloves. A Help menu is easily accessible from any screen. Onboard non-volatile flash memory provides storage for 300+ spectra. Data files, including measurement conditions, identified isotopes, dose rate, and integration time can be uploaded automatically to a PC using the ICS Explorer software. This instrument is housed in a durable aluminum enclosure to withstand rigorous field use. Free software upgrades for the life of the instrument are included.

Specifications
- INDICATED USE: radionuclide identification and analysis
- DETECTOR TYPE: cadmium telluride (CdTe); 10 x 10 x 1 mm CdTe
- ENERGY RANGE: 10 keV to 2 MeV
- CHANNELS / ACQUISITION: 4000 max, 2000 effective channels
- IDENTIFICATION RANGE: 50 μR/hr to 1 R/hr
- RESOLUTION: 1% at 662 keV
- EFFICIENCY (4 π): 5% for 129I; 5% for 57Co; 11% for 133Ba; 2% for 137Cs
- LINEARITY: +/- 1%
- ACCURACY: +/-10% per ANSI 323A-1997
- ENERGY RESPONSE: energy dependent
- RATEMETER ALARM: user-adjustable
- MASTER LIBRARY: 166 radionuclides (sublibraries Norm, Medical, Indust, SNM)
- CUSTOM SUBLIBRARIES: up to 40 user-settable isotopes
- DISPLAY UNITS (Autoranging): μR/hr, mR/hr, R/hr, μSv/h, mSv/h, Sv/h, cpm, cps (User Settable)
- POWER: 7.4 v rechargeable Li+ with built-in charger (AA battery module and/or AC adapter available)
- BATTERY
  - Capacity: 3.6 amp hours
  - Measurement Time/Charge: approximately 24 hours
  - Charge Time: approximately 5 hours
- TEMPERATURE RANGE: 0 to 50 °C (32 to 122 °F)
- SIZE: 25.9 x 8.6 x 3.0 cm (10.2 x 3.4 x 1.2 in.) (H x W x L)
- WEIGHT: 0.80 kg (1.75 lb)

This product is available through JRT Associates 800-221-0111