BIOMATION is Proud to Introduce the Femto-TECH CRM-510LP Continuous Radon Monitor

Accurate! Efficient! Easy to Use!

This is truly a State-of-the-Art system for providing radon testing services.

No other radon monitor available today can provide you with a more comprehensive test for your clients.

Read on and see why the CRM-510LP is in such demand.

The femto-TECH model CRM-510LP is a precision radon detection instrument based on the same field-proven pulsed ion chamber technology of previous models R210F and RS410F. Due to a unique patented electrometer and open grid design, the CRM-510LP is highly suited to a wide range of radon measurement applications.

Because of the low current requirements of the electrometer detector and on-board computer, the new Low Power model CRM-510LP is a fully-portable self-contained continuous radon monitor that can read and record hourly test data for eight days of stand-alone operation. In this mode of operation it is uniquely suited for screening and follow-up testing.

The full-function computer system incorporated in the model CRM-510LP provides the operator with a highly flexible radon detection instrument and data logger while still maintaining the simplicity of operation for which femto-TECH instruments are noted. In addition to the measurement and storage of radon data, the highly sophisticated on-chip peripheral capabilities of the CRM-510LP provide for the measurement and storage of temperature, barometric pressure, and relative humidity. This multidimensional data acquisition capability provides the tester with a unique data base for effectively evaluating the validity of short-term radon measurements.
Some of the features offered by this unique combination of computer control and open grid pulsed ion chamber detector are:

- Real time radon measurements (hourly and total test data)
- Passive sampling (no pumps needed)
- Choice of units (pCi/L or Bq/m³)
- Temperature (°F or ºC)
- Barometric pressure ( Hg or kPa)
- Relative humidity (%)
- Windows™ compatible (data downloadable to PC Windows 95 and above)
- Graphic printouts (bar graph)
- Alpha-numeric printouts (table view of data)
- Built-in RS-232 interface port
- Built-in parallel printer port (choice of compatible printers)
- LCD screen display
- Permanent EPROM based operating system
- EEPROM data storage (retains data without battery power)
- Built-in download software
- Keyed security lock
- Anti-tamper motion detectors
- Concealed-screen test mode (stealth mode)
- Real time clock
- Nuclear pulse simulation (systems check at start of each test)
- One-year power pack (no charging between tests)

### Model CRM-510LP Specifications

**Radiation Detected:** Radon-222 Alpha

**Detector:** Air Ionization chamber

**Dynamic Range:** 1.0 to 200 pCi/L (36 to 74000 Bq/m³)

**Units:** pCi/L or Bq/m³

**Sensitivity:** 0.3 CPM per pCi/L (Nominal) (0.008 CPM per Bq/m³)

**Linearity:** 1 to 200 pCi/L (<10% deviation)

**Tamper Detection:** Tilt monitor

**Sampling mode:** Passive Air Diffusion

### OPERATING MODES

**Data Collection:** Elapse time displayed

**Data Printing:** ASCII text Data, Seiko/Epson graphics data

**Downloading ASCII data**

**Data Storage:** 192 one-hour data points (8 days)

### ENVIRONMENTAL SENSORS

**Temperature Range:** 50 - 104 °F (10 - 40 ºC)

**Sensitivity:** + / - 1 °F (+ / - 0.5 ºC)

**Barometric Pressure Range:** 0 - 38 Hg (0 - 127 kPa)

**Sensitivity:** + / - 0.2 Hg (+ / - 0.5 kPa)

**Relative Humidity Range:** 10 - 90%

**Sensitivity:** + / - 5%

### DISPLAY

**Alphanumeric Prompts16-digit one-line LCD**

**Pulse Indicator** Red LED

### CONTROLS

**Key Switch:** OFF, I/O, & RUN positions

**Two momentary Push Buttons:** Multifunction menu driven select & execute

### SELF TEST

**All Batteries Alkaline and lithium**

**Electrometer Nuclear pulse simulator**

### EXTERNAL OUTPUT (Male DB-25P)

**Serial:** RS-232C

**Parallel:** 8 Bit simplified Centronics

### POWER

**Electrometer and ion chamber**

**Four 9 V alkaline (nominal life 1 Yr.)**

**Computer/Data Logger 7.2 V, 7.2 ah lithium (nominal life 1 Yr.)**

### SIZE

**Height (with Handle):** 137 mm (5.4")

**Width:** 160 mm (6.6")

**Depth:** 190 mm (7.4")

**Weight:** 1.8 kg (4 pounds)

**Environmental Operating Range:** 10 to 40 °C (50 - 104 °F)

**Specifications subject to change without notice**

### WHY SHOULD YOU USE A CRM-510LP?

Our present users tell us: it is the quality of the product, excellent service and support that they receive.

**Most state:** it is the confidence and creditability of knowing that by using an industry standard to perform environmental tests for their clients it will reflect on their reputation.

**We state:** Truly state of the Art Instrumentation! Proven Quality, Service and Support!

Lower cost per test than other methods of detection! USEPA and Industry proficient.

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When you provide the very, best our reputation precedes you!