

Femto-TECH




Continuous Radon Monitor



**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.

BIOMATION

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Visit our website - www.biomaticom.com/radon

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 °C)
- 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 °C)
Sensitivity + / - 1 °F (+ / - 0.5 °C)
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 Prompts 16-digit one-line LCD
Pulse Indicator Red LED

The **CRM-510LP** provides user-friendly and quality features including: **A real Time Clock, Nuclear Pulse Check System and a Power Pack Battery System.** This allows you to perform testing for a full year with no battery charging needed. It is truly what professional radon testers need.

We have also added the ability to upload your test data directly to a template on Windows™ based computers, thus allowing printing, emailing or faxing a complete custom report to your clients.

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 credibility 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.

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

BIOMATION
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