



FM-9-MABC Electronics

Radiation and Chemical Air Quality Monitor

Model - FM-9-MABC

Features

Choice of Sensors

Nuclear

- Alpha Only or Beta or Gamma or Combination

Chemical

- See List Page 2 – Per Request
- Internal Data Archive & Retrieval
- Quick Change Filters
- Real Time Operation
- Real Time Alarm
- Low Air Flow Alarm
- Provides Local Or Remote Sampling
- USB Ports (4)

Options

- Remote Alarm
- Remote Readout
- Cart Mounted

Application

Technical Associates **FM-9-MABC Air Monitor** assures safety against airborne

radioactivity and chemical contamination by means of constant check with alarm and record capability. It provides integrated exposure information with an optional hard copy via external computer.

This Air Monitor is a complete system and may be expanded per need with modules of the **FM-9 Series**.

The **FM-9 Air Monitor** is sensitive and versatile. It may be used to monitor work place air, stack effluent, hoods, glove box or room and environmental air.

Description

- The **FM-9-MABC Air Monitor** utilizes a solid state detector and two coordinated single channel analyzer windows.
- The system typically uses a quick change 47mm filter.
- The unit comes with an AP-3V air pump or may be plumbed to hood exhaust or in-house air system.
- Included with the **FM-9-Air Monitor Series**:
 - Quiet Green Turtle Air Pump
 - User's Manual
 - Six feet plastic tubing
 - A box of 100 Filters



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DIVISIONS OF



USNUCLEARCORP

OTCQB-UCLE

Radiation and Chemical Air Quality Monitor

Model - FM-9-MABC

Description Chemical Sensors

Mix and Match at Time of Order

- | | |
|----------------------------------|------------------------------------|
| - Chemical | - NO ₂ Nitrogen Dioxide |
| - Methane | - SO ₂ Sulfur Dioxide |
| - Diesel Fumes and Particulates | - O ₃ Ozone |
| - CO Carbon Monoxide | - VOC |
| - CO ₂ Carbon Dioxide | - Fine Particulates |

Description Chemical Sensors

- Thermal
- Temperature
- Relative Humidity

Description Radiation and Chemical Sensors

- The system typically uses a quick change 47mm filter.
- The unit comes with an AP-3V air pump or may be plumbed to hood exhaust or in-house air system.
- Included with the **FM-9-MABC-Air Monitor**:
 - Quiet Green Turtle Air Pump
 - User's Manual
 - Six feet plastic tubing
 - A box of 100 Filters

Description Electronics

- The measurement rate is shown on the front panel color monitor display both rate and integrated information.
- The high level alarm trip point is settable over the entire range.
 - » When activated, the system provides an on screen red alert and an audible alarm warning.
 - » An adjustable alarm delay prevents short term transient alarms.

Specifications Radiation


Detectors:	Alpha, Beta Particulate (1 Each)
Range:	Alpha: 10 ⁻² – 10 ⁵ Bq/cm ³ OR 10 ⁻¹ – 10 ⁶ Bq/cm ³ Beta: 3 x 10 ⁻¹ – 10 ⁵ Bq/cm ³
Sensitivity:	7x10 ⁻⁷ Bq/m ³ at 70 liter/min air flow with 1 hour reading.
Energy Response:	Alpha: 2.7-10MeV Beta: 80 KeV – 2.5 MeV
Counting Efficiency:	24% of 2 pi with wide window setting for Pu-239 source in the filter holder.
Response Time:	1 sec. to 40 hours.



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Radiation and Chemical Air Quality Monitor

Model - FM-9-MABC

Specifications of Chemical and Other Sensors Will Be Provided Upon User Request

Specifications Electronics

- Readout:** 7" Color LCD monitor built-in user data display.
- Concentration of all Selected Hazards
 - Total Activity on Filter
- User Settable Units:** Radiation: cps, Bq, μCi , Bq/m^3 , $\mu\text{Ci/l}$, DAC, DAC-hr,
Chemical: ppm, ppb, LEL, etc.
- Air Flow Status
 - Air Flow Rate
 - Alarms – Audio and Visual - User Settable.
 - System Status; System Error
 - Alert Change Filter Due to High Activity Build Up - User Settable.
 - Torn Paper Filter Error Alert
- Alarm:** On screen red light alert; audible alarm
- Pump:** Quiet Green Turtle Pump – AP-3V included. 115V 60Hz 2Amps.
Optional: 220 V 50-60 Hz.
- Flow Rate:** 25 – 135 l/m (Normally set at 120 liters/min.)
- Mass Flow Meter:** Real-Time air flow rate-data feeds directly into data analyzer software and
Onboard computer for highest concentration accuracy eliminating need
for manual adjustment of High and Low Flow Rates.
- Ports:** Sample In and Sample Out (1 each)
Purge Air Inlet (1)
Calibration (2)
- Filters:** Pack of 100 47mm filters included.
- Temperature Range:** 20 to 130 degrees F. (-7 to 54 degrees C.)
- Finish:** Baked enamel, easily cleaned.
- Weight and Dimensions:**
- Weight:** 35 lbs.
- Dimensions:**
- Electronics Assembly
and Internal Detector: 20" W x 13" H x 18" D
- Pump Assembly: 8" W x 8" H x 14" D
- Options:**
- Remote Alarm - Remote Readout - Cart Mounted



Oil-Less Green Turtle Pump



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