

HIGHLY SENSITIVE TRITIUM IN AIR MONITOR

Model - 347

FEATURES:

- SENSITIVE DOWN TO: 0.5 $\mu\text{Ci}/\text{m}^3$ (0.02 MBq/m³)
- FOUR 2L ION CHAMBERS IN CRUCIFORM PATTERN FOR MAXIMUM SENSITIVITY, STABILITY, AND GAMMA COMPENSATION
- TOTAL MEASUREMENT VOLUME: 4000 CM³
- NO RESPONSE TO RADON
- ZERO DRIFT – BETTER THAN $\pm 1\mu\text{Ci}/\text{m}^3$
- SINGLE, ADJUSTABLE ALARM SETPOINT WITH AUDIBLE AND VISUAL ALARMS
- AC
- DIGITAL LOCAL DISPLAY
- OPTIONAL: RS232 OUTPUT; REMOTE READOUT



APPLICATION:

A general purpose highly sensitive Tritium in air monitor that utilizes four 2L ion chambers for applications that require low-level sensitivity with the best gamma compensation and stability.

DESCRIPTION:

The Model 347 includes four 2L ionization chambers arranged in a cruciform pattern to provide superior gamma compensation from all directions. The additional ionization chamber volume also provides enhanced stability and sensitivity. The pump, filter, and flowmeter are mounted on a separate panel and includes a HEPA filter to ensure sample is free of particulates.

SENSITIVITY:

Sensitivity: 0.5 $\mu\text{Ci}/\text{m}^3$ (0.02 MBq/m³).

RADON INTERFERENCE, NOISE RESPONSE:

A radon suppression circuit produces accurate and drift-free readings.

FAST RESPONSE:

Exceptionally rapid response is due to its unique ability to ignore radon. The instrument has an electronic time constant.

FAST WARM UP:

After applying power, "warm up" takes less than 5 minutes.



TECHNICAL ASSOCIATES OVERHOFF TECHNOLOGY

7051 Eton Ave., Canoga Park, CA 91303
818-883-7043 (Phone) ~ 818-883-6103 (Fax) ~ 818-836-0381

SALES@USNUCLEARCORP.COM - WWW.TECH-ASSOCIATES.COM

Divisions of  USNUCLEAR CORP
Ticker UCLE

HIGHLY SENSITIVE TRITIUM IN AIR MONITOR

Model - 347

SPECIFICATIONS:

RANGE:	0.1 to 1,999.9 $\mu\text{Ci}/\text{m}^3$ or 0.01 to 199.99 MBq/m^3
DISPLAY:	Digital, 4 1/2" digit LED
ACCURACY:	$\pm 10\%$ of reading, $\pm 1 \mu\text{Ci}/\text{m}^3$, whichever is greater
STABILITY & LONG-TERM DRIFT:	$\pm 1 \mu\text{Ci}/\text{m}^3$ of ambient temperature
GAMMA COMPENSATION:	Second ion chamber pair of equal volumes, mounted in cruciform pattern, serves to cancel effects of external gamma fields up to 25 mR/hr
RESPONSE RATE, ELECTRONIC:	two linear time constants, 30 seconds for $<80 \mu\text{Ci}/\text{m}^3$ 3 seconds for $>80 \mu\text{Ci}/\text{m}^3$
WARM-UP TIME:	Less than 5 minutes for high voltage power supplies to stabilize
ALARM SYSTEM:	Single alarm, with set point adjustable from 1 to 1000 $\mu\text{Ci}/\text{m}^3$
ION CHAMBER VOLUME:	Measuring: 2900 m^3 ; Total Wetted: 4000 cm^3
ENVIRONMENTAL:	Storage: -40°C to 60°C (-40°F to 140°F) Operating: 0°C to 50°C (32°F to 122°F) Humidity: 0-95% RH non-condensing
PHYSICAL CABINET:	Benchtop, aluminum extrusions front and rear panel
POWER:	115 VAC or 240 VAC 50/60 Hz
DIMENSIONS:	8.8" (223mm) H x 19.0" (483mm) W x 16.0" (406mm) D
WEIGHT:	45 lbs (20.4kg)
FLOWMETER:	0-10 lpm adjustable rotameter
DUST FILTER AND PUMP:	Separately mounted
POWER:	115 VAC or 240 VAC 50/60 Hz
DIMENSIONS:	7.0" (178mm) H x 17.0" (432mm) W x 16.0" (406mm) D
WEIGHT:	20 lbs (9.1.4kg)

OPTIONS:

- Remote alarm units
- Remote meter displays
- Tritium gas calibrator
- Calibration resistor
- 4-20 mA output
- Logarithmic output
- RS232 output



TECHNICAL ASSOCIATES OVERHOFF TECHNOLOGY

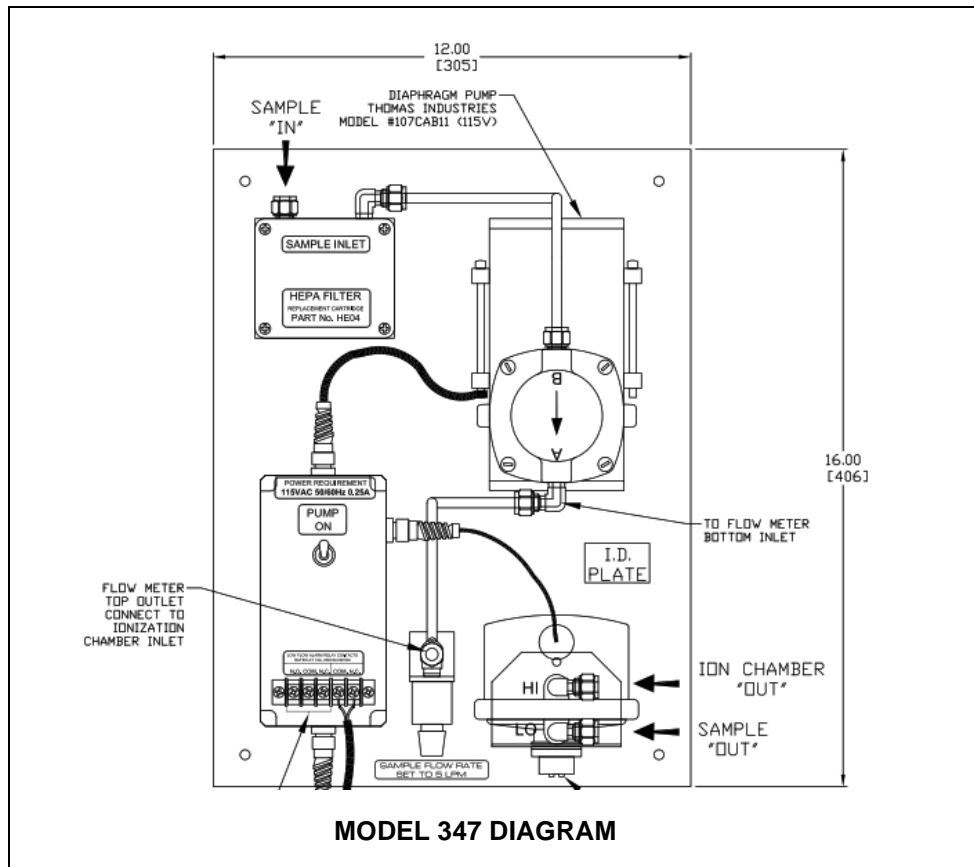
7051 Eton Ave., Canoga Park, CA 91303
818-883-7043 (Phone) ~ 818-883-6103 (Fax) ~ 818-836-0381

SALES@USNUCLEARCORP.COM - WWW.TECH-ASSOCIATES.COM

Divisions of  USNUCLEAR CORP
Ticker UCLE

HIGHLY SENSITIVE TRITIUM IN AIR MONITOR

Model - 347



**TECHNICAL ASSOCIATES
OVERHOFF TECHNOLOGY**

7051 Eton Ave., Canoga Park, CA 91303
818-883-7043 (Phone) ~ 818-883-6103 (Fax) ~ 818-836-0381

SALES@USNUCLEARCORP.COM - WWW.TECH-ASSOCIATES.COM

Divisions of  USNUCLEAR CORP

Ticker UCLE