Model Series ~ LoGAM LoGAM-E/W ~ LoGAM-D-E/W

FEATURES:

- NO HIGH PRESSURE
- OKAY FOR ANY SHIPMENT
- REPLACES LARGE "HAZARDOUS" PIC Detectors
- RUGGED REAL TIME, IN-LINE, CONTINUOUS
- EASY CALIBRATION
- Full SCADA compatibility

APPLICATION:

- Drift Free Measurement of environmental gamma levels
- LoGam Series monitors detect small changes in ambient radiation levels to same or better than traditional PIC chambers
- Now you can legally ship your equipment for use in other locations or for calibration and maintenance.



PROBLEM:

CURRENT REGULATIONS and Environmental concerns demand ever lower levels of Gamma Flux measurement. ION chambers have been the sensor of choice due to their reputation for wide range, linearity and stability, and lon chambers are incredibly versatile detectors.

However Ion chambers have a wide range for higher level measurements. They are adapted to see background and below only by using large 10-14" diameters and high pressures of 10 to 20 atmospheres.

Unfortunately reliably going to the low levels desired has not been possible until now. PIC instruments have filled this need and the size and high pressure of the PIC instruments was inconvenient yet tolerated for lack of something better. Now current near prohibition on shipping the PIC pressurized chambers have precluded overlooking what was a mere inconvenience.

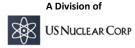
SOLUTION:

The LoGAM Series Continuous Real Time monitors solve this problem.

- Data is analyzed and displayed in units of micro R/hr or micro Sv/h.
- Data is continuously updated. It also accumulates to give better statistics. every minute, every hour and every day.
- Longer update times correspond with greater precision and increased sensitivity.
- Measurements of radiation concentration logged are 24 hr/day, 7 day/week.
- Shipping and portability are no longer are problem as with the more hazardous and unwieldy PIC







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instruments.

ENVIRONMENTAL GAMMA MONITORS

DESCRIPTION:

LoGAM Series is an industrial radiation measurement system. It includes detector and electronics for measuring of Gamma field strength. The pre-amps are plug in modules allowing change or addition of functions at a later date, and allow rapid repair by module replacement in the field. The modular system is covered by TA's unique exchange warranty system in addition to the full one year warranty.

Principal Detectors in this system Gamma flux is measured using a cluster of energy compensated long life T-1150 GM tubes. The energy range is 60 KeV to 3 MeV.

SENSITIVITY:

The **LoGAM Series** Gamma monitors will detect changes of less 10% of ambient terrestrial and cosmic radiation, over a wide temperature range.

The standard sensitivity version measures as low as 1µR/h (.01 µSv/h) with good stability.

SIZE:

The tripod mounted sensor is compact, measuring 7" [178mm] diameter x 14" [356mm] long, excluding power supply module. The total package weighs only 18 lbs [8.2 kg].

ENVIRONMENTAL:

The sensor package is waterproof and operates from 0°C to +50°C without drift in zero and change in span sensitivity.

REMOTE CAPABILITY:

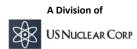
The standard **LoGAM Series** monitors are AC operated but can be installed in remote locations. Data can be stored at the site of the **LoGAM Series** monitor on compact flash memory cards or transmitted in real-time via optional RF link.

DATA: Analysis-Display & Archive

- Historical data is easily displayed on-screen (and/or printed out on the optional graphics printer) in tabular or graphical format, showing quantitative information as well as trends.
- Data is recorded frequently so time-resolution is excellent.
- Ethernet and USB ports (with security) make it easy to archive and further analyze data.
- Continuous, Reliable Data: YES,
 False Alarms: NO
- Each alarm activates fail-safe relays. Relay contacts are available to user. (on AC power models)
- User friendly specialized software.
- Data is interfaced with a USB or Ethernet port.
- Full SCADA compatibility and CADA.







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OPTIONS: MODBUS or other protocols. Printer

MODEL	DESCRIPTION	POWER
LoGAM-E	Environmental Range (4-Decades) 1-10,000 uR/Hr (.01 – 100 uSv/h	110 VAC 220 VAC
LoGAM-W	Wide Range(7 – Decades) 10 uR/Hr – 100 R/Hr (0.1 uSv/h – 1Sv/h)	110 VAC 220 VAC
LoGAM-D-E	Detection Head from LoGAM-E includes; Detector Analyzer Logic Transmitter	12 V DC
LoGAM-D-W	Detection Head from LoGAM-W includes; Detector Analyzer Logic Transmitter	12 V DC

SPECIFICATIONS:

Ambient Temperature: 65 - 100 ° F (wider temperatures ranges optional)

Optional Cooling System: Cooler model Cool-33 for detector is used in case of

higher ambient temperatures.

MEASUREMENT RANGE

 LoGam-W:
 10uR/h to 100R/hr (0.1 uSv/h to 1 Sv/h)

 LoGam-E:
 1 -10,000 μR/h (0.01–100μSv/h wider

and/or higher ranges optional

Resolution And Accuracy (Span): 10 μR/h [0.1 μSv/h]

Stability And Drift: Better than $\pm 10 \mu R/h (\pm 0.1 \mu Sv/h)$

Display: Graphic LCD with backlight

DATA ACQUISITION:

Communication Link: RS232 Serial Transmission / USB Port

Software:

Complete user friendly data analysis, display and storage

POWER:

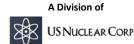
Power: Li-lon rechargeable battery pack, operates for 8 hrs with display

off. (full charge). Recharges in 4 hours at 7.5V, 1A

Power Supply Module: Input: 100-240VAC, 50-60Hz. Output: 7.5VDC, 3A max







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OPTIONAL: Internal NiMH battery, 6 cells, 9.5Ah.

HPIC will operate for 24 hrs at full charge recharges in 8 hrs.

ENVIRONMENTAL:

Temperature, Humidity: 0° C to +50° C, 99% RH

Enclosure Rating: IP64, sealed against dust and water spray

DIMENSIONS AND WEIGHTS:

Sensor Housing: 5" [127mm] Diameter x 12.6" [320mm] Long
Sensor Front Panel: 6.6" [168mm] Diameter x 0.5" [12mm] Thick

Mounting Plate: 25" [635mm] L x 7" [178mm] W x 0.5" [12mm] Thick

Weight: 12.5 lbs [5.7 kg]

Adjustable Height: 38" to 63" [96.6cm to 160cm] 9 lbs [4.1 kg]

Power Supply Module: 4.8" [122mm] H x 6.3" [160mm] W x 9.4" [239mm] L 5.5 lbs. [2.5 g]

OPTIONS: Choose one of the following,

Radio Network: 1500ft [450M] up to 20miles [32.2km]

Local Data Storage: Data recording media; CF card, data capacity; 512M

Shielding And Collimators:





