

RAD MIC

INTERNAL CONTAMINATION
PIPE PROBE

RadMIC 1.5

- **All-round Alpha & Beta detection for pipe inspections**
- **High sensitivity scintillation detectors**
- **Fine mesh protective grille**
- **Various spiders/spacers for different diameter pipes**

The RadMIC contamination probe is designed to pick up very low levels of alpha and beta radioactive contamination inside pipes, drains and scaffolding. The close fit in scaffold tubes is for optimum alpha measurement with its 2pi detector.

The system can be used manually with the probe and ratemeter or alternatively a fully-automated system can be supplied. The RadMIC is pushed through the scaffold or tubulars with spring loaded spiders to keep it centred. There is a range of spiders, which can be fitted for different bore piping.

With a high efficiency and low probe maintenance costs, the RadMIC offers a simple and effective system for free release monitoring.



Product Specifications

Detector:

Dual or single phosphor scintillator with mylar window. Cylindrical plastic scint cap and ZnS coated surfaces offer a 2pi detection ability.

Probe Dimensions (Without spider)

	RadMic ¾	RadMic 1.5	RadMic 3.5
Length (cm)	22	30	35
Outer Diameter (cm)	2	4.5	9
Weight (g)	325	340	900
Detector Area (mm ²)	610	3100	7500 radial

Sensitivity:

Alpha: Am241 - 32%

Beta: Sr90 - 44%

Temperature Range:

+5oC to +40oC (+40oF to + 105oF)

The automated system pushes the RadMIC probe through pipes / scaffolding at a steady rate of 2cm/s (adjustable) using a computer controlled winch and 4m of insulated cable.

ALARM:

With a manual system, a standard ratemeter alarm setting is used. An automated computer controlled system will alarm and stop the pushrod, displaying the position of the contamination in the tube / scaffold on the screen.

Options: Alpha only Detector
 Beta / Gamma
 Alpha / Beta

Associated Equipment and Options

RM001:

Labeled cabling with measured units of length.

RM002:

Mylar patches and ZnS spray for probe repairs.

RadMIC is patent pending.

Due to the BIC policy of continuous R&D, changes to the specification may occur without notice.

