

## RADOUT®



### Strenghts

- Fitting 2 PADC formats
- Easy to mount
- Reusable
- Extended range
- Low thoron interference

Radout® is a closed type holder for CR-39 radon dosimetry.



### Specifications

- Closed type, air gap
- CR-39 25x25x1.5 or 15x15x1.5 mm<sup>3</sup>
- Dimensions: diameter 50 mm, height 20 mm
- Range up to 9.000 Bq m<sup>-3</sup> for 6 months



### Extended Range

In case of very high level of exposure, read the backside of the detector. Using Politrack reading system, the range extends from 20 up to more than 40.000 kBq h m<sup>-3</sup>.



### Easy Assembly

Insert and fix the plastic in the bottom part. Close the holder by aligning the notch top and bottom part and press. To open after exposure, just insert a flat tool in the slit and lever.



### Intercomparisons

In 1999 Mi.am begins to participate in international radon intercomparisons, obtaining excellent results. Since 2010 we use our Radout® CR-39 dosimeter and Politrack® reading system.

In 2014 and 2016 we attended the IN FIELD intercomparisons organized by AIRP - Italian Radioprotection Association-. Both in Lurisia (in Maria Skłodowska tunnel) and in Cervo Valley (in houses), for all the levels of exposure, the relative error has been below 10%.



## INTERCOMPARISONS 2010-2019

N = Number of devices A = Reference exposure (kBq h m<sup>-3</sup>) B = Mi.am relative error (%) C = Standard deviation (%)

	BFS 2010	PSI 2010	BFS 2011	NIRS 2011	PSI 2012	BFS 2012	BFS 2013	SURO 2013	BFS 2014	PSI 2014	BFS 2015	PSI 2016	BFS 2017	CLOR 2018	METAS 2018	BFS 2019
N	7	5	7	9	5	7	7	7	7	7	7	5	7	5	5	7
A	234	57	241	102	8296	201	180	555	206	498	333	119	191	363	253	268
B	-0.7	-4.4	1.9	3.9	-6.0	-6.3	7.7	7.2	-5.1	-1.3	-6.8	6.0	0.6	-1.6	10.7	0.8
C	2.5	13	7.3	7.4	1.4	7.9	5.8	1.8	7.7	3.4	5.9	6.5	7.0	5.4	5.7	6.9
A	1224		1796	441		1179	1050		403		386		208	764		644
B	0.8		2.2	5.4		-8.6	-5.1		-5.2		-5.0		-0.3	-0.5		0.8
C	1.4		1.9	3.4		1.7	3.4		4.7		6.7		4.9	1.6		1.8
A	1330		1849	875		1339	1100		1447		1986		1099			710
B	0.2		4.5	5.3		-9.6	-1.8		-4.0		-5.5		-3.5			2.9
C	2.4		1.6	3.2		1.6	3.5		2.0		4.1		2.0			4.1
A	3023		3294			3119	2832		2455		2076		1169			1945
B	2.0		5.6			-4.7	-0.1		-2.3		-2.3		-2.9			-0.3
C	1.0		1.8			1.2	2.6		0.9		1.6		3.5			2.4

### RELATIVE ERROR

