

RadAI™-1

Radiation Monitor and Alarm

cost-effective protection against radiological risk



La Escala, July 2008

RadAI™-1 news

Each installation is unique... but in the ten years since we sold our first unit we have been gaining experience in offering effective solutions to common installation and operation issues, such as: wireless connectivity, operation with unreliable or missing power supply, programming and display... we summarize here some of these solutions for the convenience of our customers,.

1 – Wireless connections

Simplify the installation of multiple RadAI™-1 radiation monitors/alarms over wide-areas eliminating data cables between the units and the central computer.

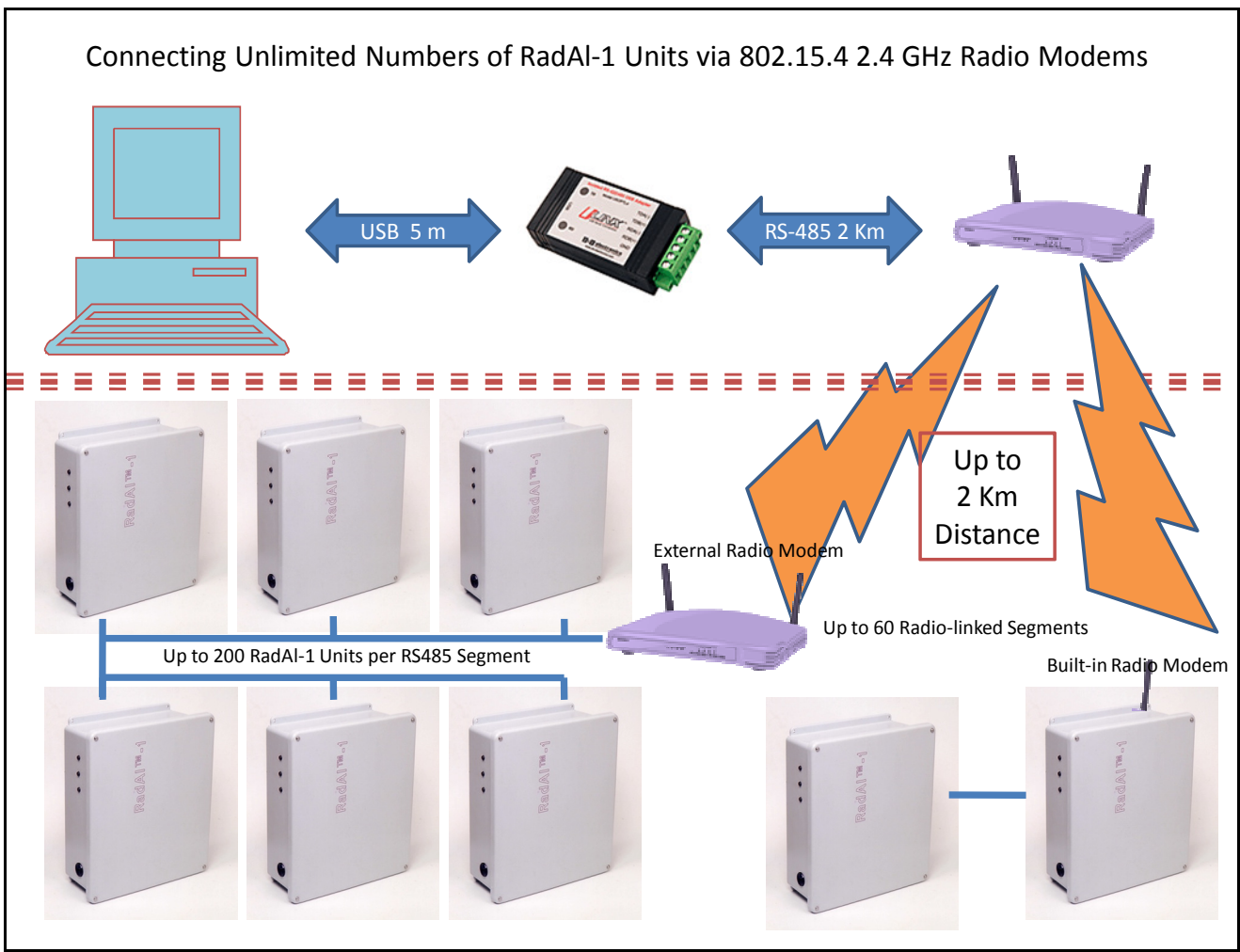
Transparent radio-modem, operating in the 2.4 GHz ISM (license-free) band, 802.15.4 standard. Allows to connect up to 60 local networks to a central computer, over distances of over a mile.

Description	Reference	Price (€)
802.15.4 2.4 GHz Radio Modem, RS-485	RA-RC1	
Adapter for PC, USB to RS-485	RA-485U	

Notes:

Normally these radio-modems are delivered pre-installed and preprogrammed inside a RadAI™-1-WP unit.

You will need one radio-modem on the RS-485 port of the central computer and one radio-modem on each remote segment. Each remote RS-485 segment can accommodate up to 240 RadAI™-1 units.



2 – Uninterruptable Power Supply

For installations at sites with frequent power supply blackouts or for mission critical applications.

Internal battery (sealed lead, maintenance free) and its charge management electronics, installed on RadAI™-1-WP models.

Assures 24 hours operation in the event of failure of primary power supply (including consumption of eventual RA-RC1Radio-Modem)

Reference	Description	Price (€)
RA-UP1	Uninterruptible power Supply (24 hours)	

Note: to be used with 230 or 115 Vac primary supply (specify at order).

3 – Solar Panel

For remote or frequently mobile installation, or where it is inconvenient to bring power supply cables. In conjunction with the RA-RC1 radio-modem it allows fully wireless operation

Panel of 20 W nominal power, includes kit to mount on pole or wall and electronics for charging battery (included) providing 24 hours autonomy.

Reference	Description	Price (€)
RA-SP1	Solar Panel, 20 W, includes battery, electronics and mounting hardware	

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Note: to supply power to sets of multiples RadAI™-1 units it is possible to deliver panels of suitable power (for example, 120 W for 6 units), with savings in work and materials: consult with factory.

4 – Custom Developments

Contact factory for special requirements such as:

- Energy compensated response
- Tamper resistant covers
- Geiger tubes of reduces sensitivity for monitoring of intense gamma fields (gamma irradiators, etc.)
- Installation on shock absorbing supports for use in vehicles, helicopters or cranes
- Custom software integrating presence detectors, weight sensors, etc....