Deployable Radiation Monitor
Essential monitoring and reporting

Features
- Rapid deployment
- Immediate transmission of sensor data
- Messaging options
- Geo-location & reporting
- Tilt detection
- Weatherproof

Ultra Electronics has developed an autonomous radiation sensor housed in a low profile housing. The sensor is battery powered and will operate continuously transmitting real-time radiological data together with the sensor’s OS grid reference and system integrity assurance via GSM or GPRS communication. A network can be established rapidly by deploying multiple units which will all provide regular updates via e-mail messages. These can be collated and displayed at a central command unit. This provides the key data necessary for effective co-ordination and emergency response in the event of a localised radiological incident or threat.

The development has been sponsored by the Met Office, who also manage the UK’s radioactive incident monitoring network, RIMNET. The sensor can interface seamlessly with RIMNET and the processed data can be accessed by an authorised user of the system. The RIMNET system and its facilities are available to many Government departments and agencies who will have key roles in a response to a radiological event.
Immediate incident response

The deployable sensor will send data to the pre-configured recipients at regular pre-set intervals from the time the unit is powered up. The battery will allow continuous operation for 3 to 4 days before re-charging or battery replacement.

The sensor can be interrogated by the user. Authorised users can send a sensor an SMS command and it will respond to specific instructions.

The data message string comprises the current dose rate together with a UK OS grid reference of the sensor location. Part of the data string confirms the system is operating correctly and that the dose rate record can be considered valid.

If, after the initial scene assessment period, monitoring points need to be changed from the original deployment, the sensors can be repositioned and the system will identify and log the new locations and resume operation.

- GPRS data communications
- GPS position (UK OS grid reference)
- Automatic data transmission to RIMNET3 SDE system
- Overall size 67.4 x 28 x 28cm and weight 8.5kg
- Weatherproof enclosure
- Tilt detection
- Power efficient design (battery life approximately 100 hours)
- Security option for use in public areas
- Includes mains battery charger
- Factory fitted with customer-supplied SIM card

Ultra Electronics reserves the right to vary these specifications without notice.

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