

RCCL

Radiological Control of Container Load

Key features

- Container monitoring without intervention by control personnel
- Real-time follow-up of the changes in the count rate during measurement
- Industrial equipment designed to be used under all conditions
- Specially designed for the radiation monitoring of waste from health-care activities at the exit of hospitals or at the entrance of waste disposal sites



RCCL

The R.C.C.L system is designed for the radiation contamination monitoring of containers, packages (R.C.P.L), loads or pedestrians.

There is no need to stop the containers in front of the detectors (dynamic monitoring).

The system is designed to perform dynamic measurements on waste with no waiting time required. R.C.C.L is specially designed to optimize the radiation monitoring of all types of containers while taking into account changes in ambient conditions.

R.C.C.L's functioning is based on an ANDREA processing unit connected to one or two DSPxxx – 400 detectors combined to a presence detection system for the switching of the device to the measuring mode.

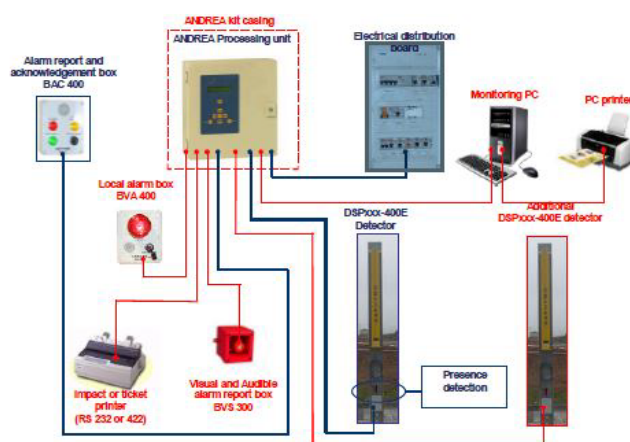
Various options are available for a better exploitation of the system, such as the alarm report boxes. After each measurement, a report containing the main information (date and time, background, count rate, alarm triggering) can be printed via an impact or a ticket printer.

The ANDREA processing unit can be optionally connected to a PC-based monitoring software. All the information contained within the processing unit (backgrounds, measurements, states etc.) are thereby available via this electronic link. In case of disruption of the electronic link, the monitoring system remains operational.



PHYSICAL CHARACTERISTICS

- **Plastic scintillator:**
 - **Volume:**
 - DSP 001: 2.5 liters
 - DSP 002: 5 liters
 - **Size:**
 - DSP 001: 50cm x 10cm x 5cm
 - DSP 002: 100cm x 10cm x 5cm
- **Sensitivity at 1m using ^{137}Cs (pulses/s/kBq):**
 - DSP 001: > 2.2
 - DSP 002: > 3.6
- **A presence detection system is essential for the proper functioning of the whole system. Presence detection can be provided by:**
 - A REM 400 presence detector (included)
 - BAC 400 box (included):
 - Alarm and acknowledgement system consisting of a buzzer, an acknowledgement button and three LED indicators (green: normal operation / yellow: technical failure – error / red: nuclear alarm)
 - Usually placed in the control room or operating site



OPTIONS

- **ANDREA kit software (Ethernet or USB):** to ensure measurements chain of custody
- **Supports for fixing detectors**
- **BVS 300 box**
 - Visual and audible alarm with xenon flash and strong audible alarm
 - Usually placed outside on one of the detector supports