

# NEO



**Wireless radiation meter with radio transmitter**  
**Monitoring of the dose rate or the ambient dose equivalent**

- Ability to display the measurements of 5 radiation meters
- Controls, protects and informs the exposed workers
- Possibility of PC online or offline recording of the information from each device
- Can record up to 20 000 dose rate measurements

Review date: 21th July 2017



## Technical characteristics



### Detection characteristics

**Detector :** Energy compensated Geiger Müller from 33 keV to 1.25 MeV

**Unit:** mSv/h

**Reference source:**  $^{137}\text{Cs}$

**Sensitivity:** 0.7 cps /  $\mu\text{Sv/h}$  for the  $^{137}\text{Cs}$

**Display range:**

**Ambient dose equivalent rate:** from 0.001 mSv/h to 160.00 mSv/h

**Ambient dose equivalent:** from 0.0001 mSv to 99 999 mSv

**Effective measurement range:** from 0.01 mSv/h to 160 mSv/h

**Response time:** < 2 s during a significant variation



### Radio transmission characteristics

**Transmission frequency:** 433.92 MHz

**Transmission power:** 10 mW maximum



### Mechanical and environmental characteristics

**Dimension:** 120 x 65 x 22 mm

**Weight:** 180 g with battery

**Alarm sound level:** 85 dBA at 30 cm

**Protection class:** IP54



### Electrical characteristics

**Power supply:** 9 V battery

**Battery life:** 20 hours for a dose rate < 1 mSv/h (radio communication working, without alarm and without backlight)



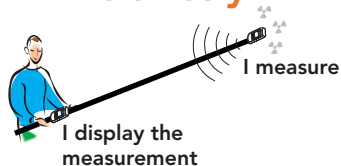
## Application & use

Allows for the remote control of integrated doses during risky operations.

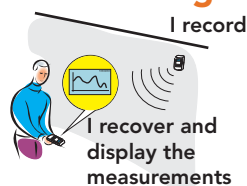
Ability to record and recover data.

Usable as a mobile supervision station during an emergency intervention allowing up to 5 operators to stay connected.

### Telemetry



### Recording



### Remote monitoring



## Options

Nemedio (communication /PC interface)

Pole to facilitate the hot spot contact measurements, at 0.5 m and 1 m

Recording stand allowing long-term measurements

Battery kit, mounting kit, remote sensor, telescopic pole