Directional Radiometric Gauge

GEORADIS **GT-25**

Two detectors gamma Ray scintilometer (front detector located in lead colimator, rear detector unshielded) in water resisting housing rated for determination of Uranium mineralization in very high local Background conditions, typically forefields in mine.

- Robust mechanical design rated in extreme hart conditions
- Two scintilation detectors CsI ϕ 20mm x 25 mm
- PIN diode light collection
- Two detectors counting mode or single detector spectrometer mode
- Graphic LCD display with back light
- User interface driven by four backlighted buttons
- Data memory for minimum 250 profiles
- Data transfer via USB
- Results in ppm or Uranium equivalent

Operation modes:
Two detectors counting mode. There are two detectors employed. Front detector is located in collimator made of lead. Collimator attenuates radiation comming from other directions but the front. The second - rear redector is mounted on backside of colimator and counts all radiation comming from all directionst. Difference between front and rear detector is called Front to Back ratio. This way is radiation from other directions then from front stripped and is created artifitial radiation Background. It is ideal for measurement of sources in areas with high and directional varying radiation Bakground. Typically minimg tunnels.
Single detector counting mode. Each of the detectors (Front or Back) can be employed separatelly and user can profit of two independent detectors counters.

TECHNICAL DATA:

Power suply: AA alkaline/rechargeable batteries 4 pieces
Display size: 104 x 81 dots, 40 x 32 mm
Data memory: 1 GB microSD Card
Detectors: CsI/Tl ϕ 20 mm x 25 mm (2 PCs)
Light collection PIN diode
Sensitivity:
irradiation from front direction
Front detector 12 cps/MBq/m
Rear detector 3 cps/MBq/m
irradiatin from **back** direction
Front detector 4 cps/MBq/m
Rear detector 11 cps/MBq/m
Mechanical:
Size: W x H x D: 8 x 25 x 16 cm
Weight: 2 kg
Temperature range: -20ºC - +50ºC
Environmental: IP 68

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