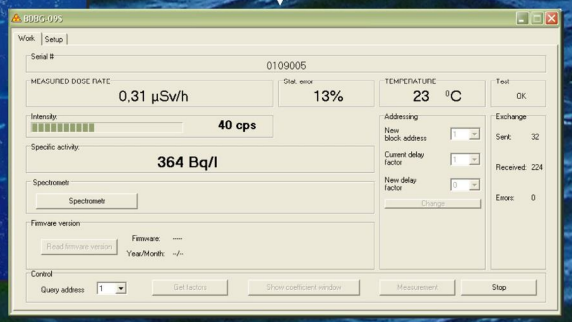
ECOTEST®

# AquaRAD

## HARDWARE AND SOFTWARE SYSTEM FOR DETERMINATION OF RADIATION PARAMETERS IN THE AQUATIC ENVIRONMENT




# AquaRAD

## HARDWARE AND SOFTWARE SYSTEM FOR DETERMINATION OF RADIATION PARAMETERS IN THE AQUATIC ENVIRONMENT

### PURPOSE OF USE

Measurement of the following water radiation parameters in water sources:
- gamma radiation ambient dose equivalent rate (µSv/h);
- intensity of gamma radiation contamination (cps);
- volume activity of cesium radionuclides (Bq/l).

### FEATURES

- gamma radiation detector based on the Csj(Tl)-scintillator-photodiode;
- hermetic stainless steel housing of the detecting unit;
- measured information display on the monitor of the portable (tablet) PC with the Android OS;
- geo-referenced measurement results.

### TECHNICAL SPECIFICATIONS

- measurement range of gamma radiation DER from 0.1 µSv/h to 100.0 µSv/h (indication range from 0.01 µSv/h to 100.0 µSv/h);
- main relative error of gamma radiation DER measurement – ±15%;
- energy range of registered gamma radiation from 50.0 KeV to 3.0 MeV;
- energy dependence of measurement results not more than ±25%;
- indication range of gamma radiation intensity from 1 cps to 10 000 cps;
- volume activity range of cesium isotopes in water from 5 Bq/l to 50 000 Bq/l;
- measurement time for cesium isotopes volume activity in water from 100 s to 5000 s;
- relative error of cesium isotopes activity measurement in water – ±25%;
- operating temperature range from +5 °C to +35 °C;
- maximum immersion depth of the detecting unit – 20 m.

### DELIVERY KIT

- BDBG-09S detecting unit of gamma radiation (water-resistant version);
- connecting cable (25 m);
- capron rope (25 m);
- serial port adapter RS485/USB;
- portable personal computer (PC);
- software.

**Manufacturer PE "SPPE "Sparing-Vist Center"**
33 Volodymyr Velyky Str., Lviv, 79026, Ukraine
Phone: +380 32 242 15 15, +380 32 242 21 15, Fax: +380 32 242 20 15
e-mail: sales@ecotest.ua **www.ecotest.ua**