

CO₂ FLUX MEASUREMENTS

PORTABLE AND AUTOMATIC SOIL FLUX ANALYZERS

Portable and automatic Soil flux devices are ideal for simultaneous measurements of gas flux CO₂, O₂, CH₄, Radon, H₂, H₂S, SO₂, VOC, Hydrocarbons, etc. over a wide dynamic range on various surfaces. Devices are suitable for measurements in the fields, forests, landfills and other areas.



Portable Soil Flux



Principles

Various gas sensors measure the gas concentration inside the measuring head. Software calculates the flux directly on-site. Accurate GPS module determines the exact location of the measurements.

Applications

- Flux CO₂ from soil;
- Flux CO₂ from compost;
- Flux CO₂ from landfills;
- Identifying ground and underground spills – pollution in ecological disasters;
- Agronomy;
- Post-fire ground activity;
- Uranium mines mapping;
- Carbon fingerprint & greenhouse gases;
- Gas presence on playground areas.



Automatic Soil Flux

Advantages

- Portable or stationary (automatic);
- Map location (inbuilt GPS module);
- Up to 5 different gas sensors with different ranges;
- Operation via tablet, mobile phone or PC.

Technical specifications

- Operating conditions; Portable version:
+5...+40 °C < 90 % RH, non-condensing;
- Operating conditions automatic:
+10...+40 °C < 90 % RH, non-condensing;
- Storage conditions: +20...+40 °C < 90 % RH,
non-condensing;
- Power supply: Li-ion battery;
- Gas sensors: O₂, CO₂, CH₄, VOC, H₂, H₂S, NH₃, Rn, etc;
- Automatic system: 4 / 8 channels.

ECHO Instruments Soil Flux software

