

Device for remote sampling of atmospheric air mounted on an unmanned aerial vehicle (UAV) comprising a housing in which an air intake duct, a filter element holder, and an air exhaust duct are arranged. Wherein the filter element holder has a drum with a plurality of through holes formed in a circle, in which isolated filter elements, a sealing mechanism, and a rotation mechanism are arranged. The sealing mechanism is configured to provide alternating abutment of the air intake duct and the air exhaust duct to one of the through holes. Furthermore, the housing of the device for remote sampling of air on a UAV additionally comprises a sensory sensor including a crystal-based gamma spectrometer coupled with a navigator.