

## ELECTRONIC AIR QUALITY DETECTION DEVICE ATTACHABLE TO MASK

### Description:

In the situation of the COVID-19 pandemic, there was an important development of the mask device, which became an essential element in our daily lives, not only due to the mandatory nature of its use, but also for protection. effective that this accessory offers against external agents harmful to health, and in particular, combat or prevent the spread of said disease. The present invention refers to an electronic device attachable to respiratory protection masks, preferably of the FFP2 type, capable of measuring in real time the concentration in the air of various components, such as gases, such as carbon dioxide, or particles. , such as VOC elements (Volatile Organic Compounds).

### Keywords:

[Detection](#)

### Sectors:

[Health](#)

### Areas:

[Health Sciences](#), [Quality of life](#)



### Advantages:

This device allows you to measure the quality of the air that the wearer breathes, regardless of whether he or she is indoors or outdoors. Furthermore, compared to air detectors that are installed in rooms, having the detector incorporated into the mask allows the user to be warned in environments where the air is only locally contaminated, a situation in which room detectors cannot do they work.

### Uses and Applications:

La aplicación de la invención corresponde al campo de la salud y tiene tanto uso doméstico, por ejemplo, conocer la contaminación del aire que respiras cuando paseas por la ciudad, como uso profesional, como puede ser advertir de situaciones de contaminación de aire en entornos peligrosos (laboratorios, maquinaria industrial que utilice productos químicos, industria del plástico, impresión 3D, pinturas, disolventes, etc.)

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**Protection Level:** National (Spain)

**Processing Status:** Spanish protection application