

HOPU

HOPU is a leader in solutions for supporting urban development and digital transformation towards Smart Cities, through data-driven tools with dashboards and IoT devices.

www.hopu.eu



SMART SPOT - AIR QUALITY, NOISE AND PEOPLE FLOW MONITORING SENSOR

Smart Spot, created by HOPU, is a data monitoring device designed for environmental monitoring. Smart Spots enable atmospheric pollution, noise pollution, inflows and people density to be monitored and measures gases like NO, NO₂, H₂S, SO₂, CO, CO₂ and O₃ in a specific area in real time, all through a single device.

Smart Spots also detect other toxic substances like alcohols, volatile organic compounds (VOCs), particulate matter (PM) to identify specific nanoparticles like dust (PM10), pollens (around PM40), contaminants (PM2.5) and viruses (below PM1).

Data quality and reliability are the main differentiating values with respect to other solutions. Smart Spots provide certified data quality of up to 90%, in line with key standards such as IEEE P2510 and validations by external institutions such as the Environmental Centre CETENMA, demonstrating excellent correlation with respect to the reference data sources. In this way it offers all the guarantees and confidence available on the market.

The data collected by the Smart Spots is of high quality thanks to HOPU's sophisticated high-precision laboratory, where machine learning algorithms improve the accuracy of the sensor measurements by reducing the effect of cross-sensitivity.

The device includes display screens showing air quality data, thus providing a comprehensive solution for **sustainable town planning that facilitates, simplifies and focuses decisions to reduce pollution in regions**, creating sustainable Smart Destinations. This service allows large quantities of data relating to the city's environmental status to be easily collected, analysed and viewed, including transportation, utilities, and social, open and device data.

Scope of smart destination application

**Technology
Sustainability**

Solutions for destinations in the following areas



Type of solution

