

# Case History

## Smart City Application Development

Place: Bari

Installation: 2019

Instrument: PyxisGC BTEX

Customer: ARPA Puglia



### INTRODUCTION

A **Smart City** is a city that uses **smart technologies** to make the critical infrastructure components and services of the city (including public administration, education, environment, healthcare, public safety, transportation and utilities) more intelligent, interconnected and efficient, with the aim of becoming more sustainable and enjoyable to live in. A Smart City is therefore a city that guarantees its inhabitants a good quality of life, and **air quality** is one of the most important indicators, since it has **direct and evident effects on the health of the community**.

### REQUEST

Following the excellent results obtained from the analytical core instrumental comparison, in 2019 Pollution Analytical Equipment realized the **new PyxisGC BTEX outdoor cabinet** as a part of the "smart cities" project.



## SOLUTION

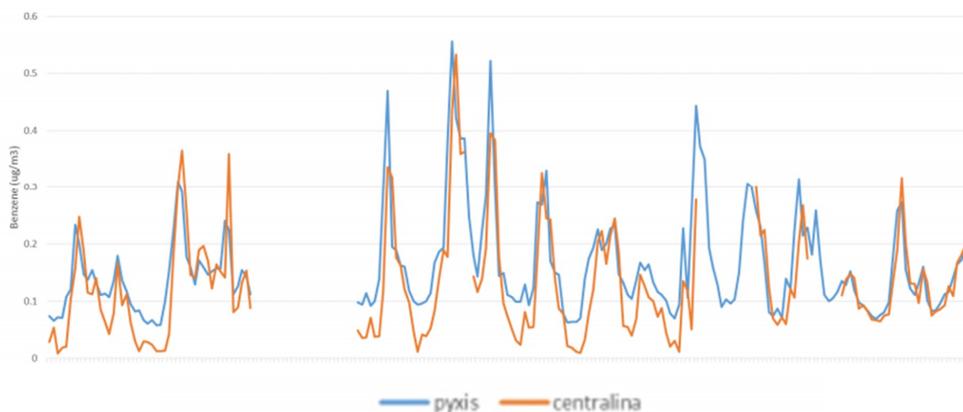
In collaboration with **ARPA Puglia**, Pollution Analytical Equipment has tested the **outdoor version of the PyxisGC BTEX** carrying out a parallel monitoring at the ARPA Cabin located in Bari for a period of 4 weeks.

This version is complete with **UPS** and **battery, auto-check** system with **integrated span gas** and **cloud** platform for data management and transmission. The case was designed with the aim of creating a compact instrument, easy to install and suitable for any weather conditions, perfect for **monitoring in urban environments** and with **reduced landscape impact**.



## CONCLUSIONS

In the first part of the monitoring, the PyxisGC BTEX operation was optimized by calibration with the automatic instrument present at the ARPA Puglia Cabin. Afterwards, by comparing the data in parallel, the instrument **reliability and accuracy** was confirmed also in its new outdoor case.



### POLLUTION S.r.l.

Via Guizzardi, 52 - 40054 Budrio (Bologna)  
Tel. +39 051 6931840 | Fax +39 051 6931818  
pollution@pollution.it

[www.pollution.it](http://www.pollution.it)



Management System  
ISO 9001:2015



www.tuv.com  
ID 9108648180

01-EN0427-0