

CASE STUDY SHANGHAI EXPO PARK 2010

ABSTRACT

The local Chinese EPA agency, needed to monitor air quality from the site of the **Expo Park 2010 Shanghai China**. In cooperation with a local Chinese company, Zhongke Scientific & Technical Co., Ltd in Guangzhou, Unitec srl supplied an air quality monitoring network including no. **7 ETL3000** multiparametric stations with one remote data management centre.



EQUIPMENT

Unitec ETL3000 stations configured with SENS3000 thick film sensors to continuously monitor **CO**, **NO2** and **O3**. The unit are equipped also with weather station for air temperature, relative humidity and barometric pressure monitoring. The provision included Unitec **@COM3000 software** for the management of air quality data and statistics.

BACKGROUND

Shanghai EMC (Environmental Monitoring Centre) needed to provide real-time air quality monitoring from the site of the World Expo 2010 in Shanghai. Unitec Srl won a **worldwide tender** proposing innovative solution of a network based on ETL3000 multiparametric units. Before installation, the 7 ETL3000 units were also tested in a comparison campaign with traditional AQM station propriety of the customer. The ETL3000 performances was appreciated by the customer who could approved the technology thanks to high quality data, reliable results and easy use of Unitec products.



SPECIFICATIONS

An air quality monitoring network in the site of the EXPO Park area in Shanghai was supplied in April 2010 by Unitec. Seven ETL3000 stations were installed around the EXPO area in the days immediately preceding the start of the event. The seven ETL3000 continuously monitor the ambient air concentrations of CO, NO2, O3 added to air temperature, relative humidity and barometric pressure. The **VPN connection** between ETL3000 units and the remote data acquisition centre, ensures secure and continuous communications with **real time** data upgrading.

