

## Application Note - Monitoring indoor air quality pollution

### Customer Requirements

It is well known that outdoor air pollution is harmful to the environment and can damage health. Indoor air quality can also pose a significant risk to public health. In particular, concentrations of carbon monoxide in exhaust fumes can interfere with the distribution of oxygen in the blood to the rest of the body. It is therefore necessary to apply a method of detection and measurement.

### Equipment

*dataTaker DT80*  
*USB Memory Stick*

### Sensors

CO gas analyser



Application Note

### Datataker Solution

An essential requirement of research is to gain an accurate picture of the roadside levels of carbon monoxide. Sensors are used to obtain accurate readings in the form of a voltage output. This output is proportional to the amount of carbon monoxide detected at any given time, and is logged every 1-2 minutes by the compact *DT80*.

The advantages of the battery-operated unit are that it has the ability to perform statistical calculations at the point of capture and has a large capacity for storing data. Frequent downloading to a PC is not required as the logger can store more than 10 million data points in internal memory. The stored data is scaled in engineering units, which eliminates the need to post-process the information. The data is then downloaded onto a PC for analysis.