

## VOC Data Sampler 822

- + up to 4 channels
- + solvent residues in ppm\*
- + air-flow measuring (option)
- + temperature measuring (option)
- + pass-through data acquisition
- + built-in sensors
- + computer programmable
- + parameter selection
- + auto scale function
- + free selectable areas
- + graphic charts on PC via ComPort
- + result storing capability on PC via ComPort
- + Data Acquisition Software



The VOC Data Sampler 822 is a portable, pass-through, Pocket-PC based data logger for IR, convection and other heat curing systems using solvent containing inks, glues, lacquers and paints. It is detecting organic solvent vapours, other volatile vapours and combustible gases such as carbon monoxide, ethanol, isobutanes, n-hexanes, benzenes, ethanol, acetone etc.

Due to its compact dimensions and heat resistance up to 200°C (with optional carrier) it is ideal to be used in conveyerized thermal curing ovens typically used in the printing, semiconductor and wood industry.

Via ComPort, it is connected to a PC in order to pre-select parameters for the measuring cycle. After passage of the curing chamber the recorded data can be downloaded to a computer for further editing by a Powerful Data Acquisition Software. The measurement and recording of data takes place at user-defined intervals.

In the basic version the VOC Data Sampler 822 is equipped with one solvent detection sensor. The solvent detection sensor has a high sensitivity to the vapours of organic solvents as well as other volatile vapours. It has also sensitivity to a variety of combustible gases.

Precise temperature measuring is made possible by a fast response temperature sensor (option).

An air-flow sensor is optionally available.

The sensors are built in the housing and the back of the unit serves as a heat shield.

Extra heat protection up to 200°C with separately available carrier (option)

The measuring results are displayed on graphs and show the solvent concentration in ppm as well as the temperature curve during the measuring cycle in °C. The monitor displayed graphs show the complete profile and offer zooming and auto scale functions. Measuring values are also displayed as digital numbers.

The following versions are available

- Item 32.1.1 VOC Data Sampler 822 Basic
- Item 32.1.2 VOC Data Sampler 822 with temperature sensor
- Item 32.1.3 VOC Data Sampler 822 with air flow sensor
- Item 32.1.4 VOC Data Sampler 822 with temperature sensor and air flow sensor

## VOC Data Sampler 822

The powerful evaluation software is included and enables the user to synchronise the VOC Data Sampler 822 with a PC via RS232

### **Technical Data:**

Detected agents :	Solvents, Vapours, Gases such as: carbon monoxide, ethanol, isobutanes, n-hexanes, benzenes, ethanol, acetone etc.
Measuring range:	0 to 5,000 ppm
Measuring range:	32 to 392° F / 0 to 200° Centigrade
Sample rate:	0.1 sec
Power source:	8 x 1.5 V rechargeable Battery
Power consumption:	350 mA
Battery service life:	1,000 reloads
Dimensions:	approx. 5.8" x 7" x 0.8" (147 x 180 x21 mm)
Weight:	approx. 17.5 ounce (450 grs.)
Temperature range:	32 to 113° F / 0 to 45° Centigrade
Heat protection:	heat protection with separately available carrier (option)
Base Accuracy:	± 5 %

With the optionally available heat protection carrier, the VOC Data Sampler 822 can withstand max. 110/200° C / 230/392° F for up to 30 seconds. The temperature of the housing should not exceed 45° Centigrade.

### **Calibration:**

In order to keep its full function and precision it is recommended to have re-calibration done once per year. Re-calibration will also be necessary after change of battery.

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