

The Syntech Spectras GC955 series 800 C2-C5 analyser

The Syntech Spectras GC955 series 800 C2-C5 analyser is built for the measurement of low boiling hydrocarbons in ambient air.

For research in the field of ozone problematics the monitoring of low boiling hydrocarbons is important. (A complete installation consists of 2 instruments, a C6-C10 monitor is added.)

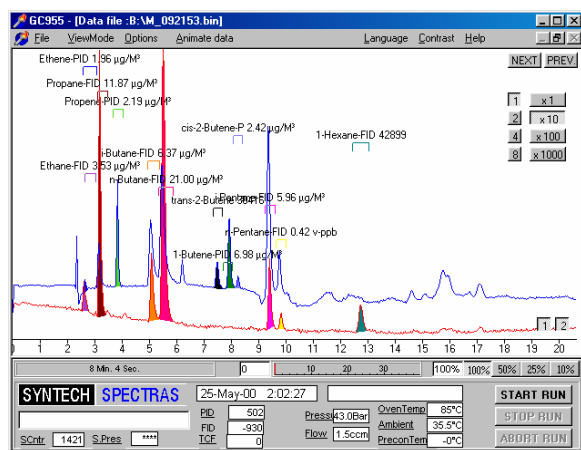
Also for the monitoring of some very toxic emissions, like vinylchloride and 1,3-butadiene in the low ppb-range standard hydrocarbon monitors are not sensitive enough.

The Syntech Spectras machines are built by specialists in ambient air monitoring: small adaptations to your needs can be made at low costs, calibrations are made according to the customers' specified range.



The instrument is a gas chromatograph with a built-in cooled preconcentration system. Hydrocarbons are preconcentrated on Carbosieves SIII at -5°C , desorbed thermally and separated on a combination of two columns, a capillary film column and a capillary PLOT column. In this way the low boiling hydrocarbons can be separated. Analysis is done by a photo ionisation detector and a flame ionisation detector. This ensures high sensitivity and good identification.

In the GC a standard industrial PC with Windows is used. This means that the whole PC structure is available to handle also the results of measurements: data are interpreted and saved on the internal hard disk. Data can also be transferred by network and modem connection. Besides this, analog and digital output options are available to communicate with other data logging systems using several data protocols.



Chromatogram of a measurement of C2-C5, 1999

Simple operation, good reliability and low maintenance cost are important to us. With a network of distributors in Europe and beyond you can be sure that your instrument comes complete with an individualised training and that support is available to help if you do encounter problems.

815 Ozone precursors fraction C2-C5	PID and FID detector. Lowest detection level for butene $0.4 \mu\text{g}/\text{m}^3$. Range: up to 300 ppb. <i>Included items: SERIES 800, column AT624, Al2O3, 5+10m, 0.32 mm ID, 1.8 μm film, cycle time 30 Min, temp program 50 - 100 $^{\circ}\text{C}$</i>
consumption of gas	instrument air: dry and clean, 3 bar, 250 ml/min nitrogen, quality 5.0, 4 bar, 25 ml/min hydrogen, quality 5.0, 3 bar, 20 ml/min
dimensions	19" rack, 5 standard Height Units, depth 37.2 cm net
power demand	220 V AC, 200 VA (110 V AC available)
included hardware	Computer Pentium class, harddisk >3 Gb, 10" full colour LCD display, I/O 4 x RS232, 2 x USB, Ethernet, PS2 key/mouse
included software	Windows98, control of instrument: direct control via keyboard or mouse, or via remote host (RS232/Ethernet/ modem), data exchange protocols available on demand
Option	One PC can control 2 gaschromatographs



Complete installation for an ozone precursor instrument, two gaschromatographs, including gas supply