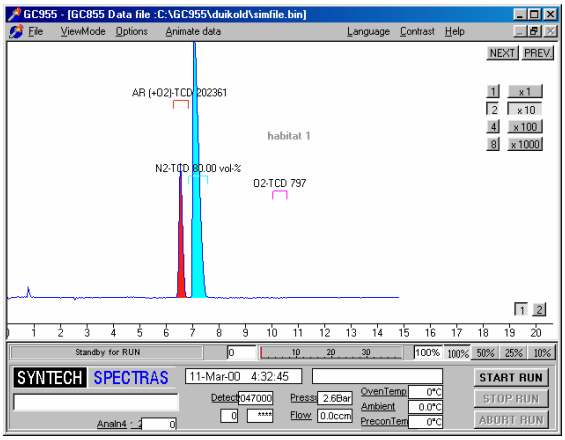
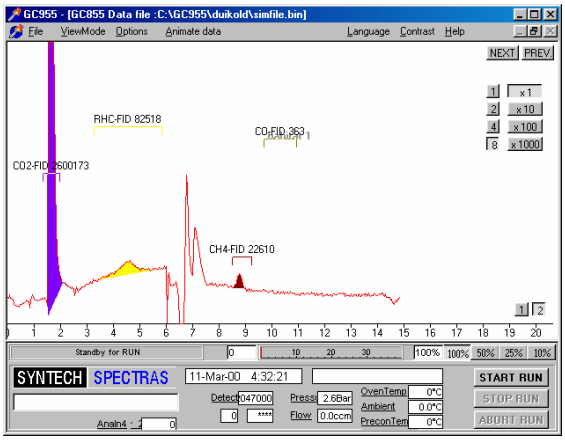
The Syntech Spectras GC955 series 100 Diving gas analyser

The Syntech Spectras GC955 series 100 diving gas analyser is built for the analysis of air mixtures that can be present in closed environments under pressure. The system analyses a main group of compounds that are either essentail for the persons brathing the mixture or that can endanger them.
Requested is the measurement of Nitrogen, Oxygen, Carbonmonoxide, Carbon dioxide, Methane and NMTHC in helium, however others can be added.

For this our instrument is the ideal choice: our instruments are not only designed for the analyst in the laboratory, but especially for the technician working at a control panel. Specialised analytical knowledge is not necessary. The instrument can be adapted to the measurement of other special mixtures, with anorganic compounds.



Analysis of nitrogen and oxygen in air, with good separation between the two peaks



Analysis of carbondioxide, methane and total hydrocarbons in air with about 1 ppm of methane and 300 ppm of carbondioxide

The instrument is a gaschromatograph with two columns and two detectors. By switching two valves in an elegant pattern, the different compounds are separated and analysed. After each measurement cycle the system is clean again and no conditioning problems occur.
In the GC we use a standard industrial PC running under Windows. This means that the whole PC structure is used 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. The results are calculated as partial pressure. The system can be coupled to a stream selector and alarms can be set at different levels.
Simple operation, good reliability, low maintenance cost are important for us. With a network of distributors in and outside of Europe you can be sure that your instrument comes with an appropriate training and that support is available to help you with problems.

111 **DIVING GASES** oxygen, nitrogen, methane, carbonmonoxide, carbondioxide, NMTHC	Detector: FID and TCD with double valve system. Levels: 0.1 ppm for FID, 0.1% for TCD with methaniser. *Included items: Series 100 , two detectors and two valves, stripper and column Porapak R, analysis column Molsieves 5A. Temperature 80 °C, cycle time 10 min*
reproducibility	typical <3% at 1 ppb (benzene, with capillary column)
consumption of gas	instrument air: dry and clean, 3 bar, 250 ml/min helium, quality 5.0, 3 bar, 25 ml/min hydrogen, quality 5.0 at 20 ml/min
dimensions	19" rack, 5 standard Height Units, depth 37.2 cm net
power demand	220 V AC, 250 VA (110 V AC available)
included hardware	computer Pentium III class, hard disk ≥.40Gb, 2.5",display LCD 10.4 " colour, various data connection options
included software	Windows XPe, control of instrument: direct control via keyboard or mouse, or via remote host (RS232 / modem), ethernet, data exchange protocols available on demand
Streamselector	4 to 16 stream options available, with a sample pump of 5 l/min, control and data handling by the GC955. Sequence can be individualised, alarm levels can be set for each stream.