TITLE: **CONTINUOUS AUTOMATIC HIGH SPEED T.C. D. GAS CHROMATOGRAPH**

DEPARTMENT: **TECHNICAL SUPPORT**

DESCRIPTION:

1. AGILENT Micro GC - P Series
2. Thermal Conductivity Detector (TCD) employing Wheatstone Bridge design and fabricated with silicon-wafer technique.
3. C1 to C5 (or iC5 / nC5) is standard, but a variety of other gas types may be monitored, with simple replacement of column modules.

4. 2 independent detector modules are standard and expandable up to 4 modules to add more target gas.
5. Fully portable for standalone operation.
6. Hydrogen or Helium carrier gas. Full integration within 60 seconds is typical.
7. Data acquisition and handling are user-friendly with the powerful Windows™ based EZChrom 200 software.

SPECIFICATIONS:

POWER REQUIREMENT:	12 VDC, 30 Watts (AC adaptor available which accepts 110-240 VAC, 50-60 Hz). 12 volt battery built-in for 8 hours continuous use without recharging.
OPERATING RANGE:	0 to 100% per volume (10^6 ppm)
TEMPERATURE RANGE:	0-50 ºC
MINIMUM DETECTION LEVEL:	Depends upon compounds to be measured. Typically 5 ppm
ACCURACY:	±~7 ppm – Calibration performed with C1 1000 pm

INTERFACE: P Series communicates with the PC / laptop via RS-232 (Serial) cable. EZChrom software integrates the peaks. Results are automatically organized by the DLS (main data acquisition computer) via Ethernet connection. A 0-1 volt output is available for connecting optional external third-party integrator (e.g., Agilent 3396A integrator).

APPROVAL:

Dept. Supervisor : VICTOR SAET Date: 10th January 2003

Technical Committee : ALAN MORRISON Date: 10th January 2003