



The Companion GC is a portable gas chromatograph utilizing the same modular plug and play components, that are found in full size laboratory GC DPS 600. The performance of the Companion GC has not been compromised because of its small size. The DPS Companion GC System are a new breed of GC. They are the first portable GC, where you can select 1 of 5 available detectors, allowing you to do more work in the field than ever before. From environmental to forensic, and Homeland security to military applications.

Features

The intelligence of the DPS Companion GC Systems are locked safely in microprocessors, where our proprietary Digital Sample Processing routines control the temperatures and gas pressures to tighter specifications than ever before.

- Modular design
- Many standard application specific configuration

- Compact oven and soft landing
- Free standing operation with on-board GC methods
- Built-in instrument diagnostics
- Proprietary Digital Signal processing

Specifications

Model

DPS Companion Gas Chromatograph

Electronics module

Colour Touch Screen Actual and set-point display of all GC parameters; safety limits on all user entered parameters; Oven Temperature Programs (OTP) with multiple ramps; pressure programs for carrier gases with multiple ramps; Control of all detector parameters on one page.

EPC pressure control up to 2 electronic pressure controllers for atmospheric pressure and temperature control

Plug and Play GC control GC, oven and detector board controlled with microprocessor; proprietary digital signal processing

Outputs Digital signal outputs for each detector

Input voltage Universal voltage input (85-240 VAC) with line filter and breaker

Optional inverter for DC voltage input

Power consumption 7 amps at 48 VDC total power consumption

Oven module

Temperature range Ambient to 325°C column oven(s)

Heating up to 80°C per/min. oven ramp

Cooldown 325°C to 50°C

Heater element 200 Watt

Temperature ramps multiple ramps with 0,1°C set-point resolution

Optional equipment Single electronic gas sample valve

Heated valve oven

Vacuum pump for sample inlet

Injectors 1 or 2 installed

Split/Splitless modified and non-heated for gas samples
cool on-column injector
multiple pressure ramps with 0,1 kPa set-point resolution
up to 2 control solenoids

Data communications Bi-directional communication with popular data systems

Digital signal output via USB

Network connectivity Enterprise compatible network GC running Windows XPe

Ethernet connection using Windows Network Protocol

On board ETX computer for GC control and data acquisition

Remote control of GC and data acquisition over LAN

Detectors 1 installed

300°C temperature limit with 0,1°C set-point resolution

24-bit digital outputs for detector via USB

FID	Flame Ionization Detector (100 pg detection limit)
PID	Photoionization Detector (10 pg detection limit)
HID	Helium Ionization Detector (100 pg detection limit)
NPD	Nitrogen Phosphorus Detector (20 pg detection limit)
TID	Thermoionic Detector (20 pg detection limit)
Dimensions	Water tight carrying case 52 x 40 x 21 cm

Weight

approx. 10 kg

Gas tanks 1 or 2 compact gas tanks, sold separately



This specification can be changed without prior notice.