After years of development and thoughtful consideration, DPS Instruments, Inc. is pleased to introduce the Portable Companion Gas Chromatgraph. The Companion GC was designed to "Go with you Anywhere!" Utilizing the same modular plug and play components found in our full size Series 600 Lab GC's, the performance of the Companion GC has not been compromised because of it's small size.

The DPS Companion GC Systems 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, the Companion GC goes where you need it.

The intelligence of the all DPS 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 and DSP is what makes our Soft Landing ever so soft..
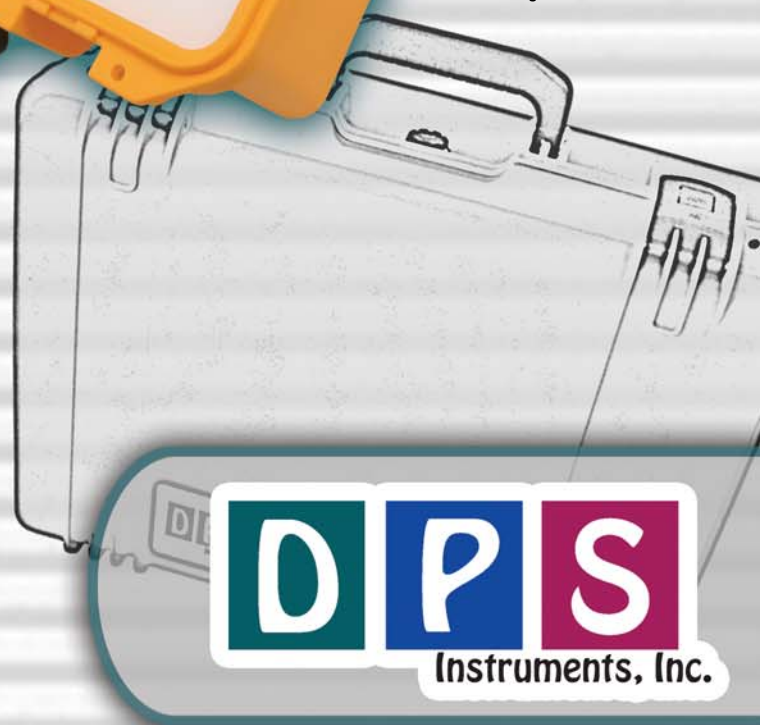
The DPS Companion GC specifications are in a league of their own. The Companion GC and all DPS GC Systems are smaller, lighter, faster, more intelligent, and have delightful pricing.

Patent Pending

General Specifications:

- Modular Design
- Many Standard Application Specific Configurations
- Compact Oven and Soft Landing
- Color Touch Screen Instrument Control
- Free standing operation with on-board GC Methods
- Proprietary Digital Signal Processing
- Built-in Instrument Diagnostics
- Temperature Control to 0.001 $^{\circ}$C
- EPC Pressure Control to 0.001 kPa
- Ambient to 325 $^{\circ}$C Column Oven(s)
- Up to 80 $^{\circ}$C per/min Column Oven Ramp
- Fast Cooldown 325 $^{\circ}$C to 50 $^{\circ}$C in <4 min
- Compact and Lightweight,
    Water Tight Carrying Case (52 x 40 x 21 cm)
    Approximately 10 kg.
- 1 or 2 compact gas tanks, sold separately.

DPS
Instruments, Inc.

Electronics Module:
- Enter and store GC Methods via Color 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
  - Timeline for sequencing Relays and Valve
  - Detector Control of all Parameters on one page
- Up to 2 Electronic Pressure Controllers (EPC's):
  - Atmospheric Pressure & Temperature Compensation
  - EPC Pressure Control with 0.1 kPa set point resolution
- Plug and Play GC Control, Oven, and Detector Board
  - Microprocessor Controlled
  - Proprietary Digital Signal Processing
- Digital Signal Outputs for each Detector
- Universal voltage input (85 – 240 Vac) with line filter and breaker.
- 7 amps at 48Vdc total power consumption
- Optional inverter for DC Voltage Input

Detectors:
- 1 Installed
- 300°C Temperature Limit with 0.1 °C set-point resolution
- 24-bit Digital Outputs for the detector via USB
- EPC Pressure Control with 0.1 kPa set-point resolution

Available Detectors:
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)

Oven Module:
- Ambient to 325 °C Column Oven(s)
  - Up to 80 °C per/min Oven Ramp
  - Fast Cooldown 325 °C to 50 °C <4 min
  - 200 watt Heater Element
  - Multiple Temperature Ramps with 0.1 °C set-point resolution
  - 12.5 x 10.5 x 12.5 cm area for Packed, or
  - Capillary Columns
- Optional Single Electronic Gas Sample Valve
- Optional Heated Valve Oven
- Optional 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

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