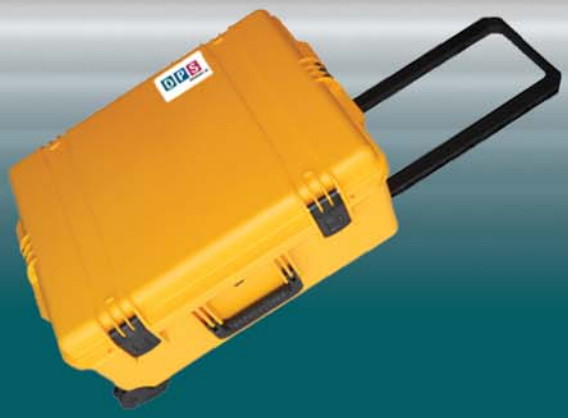
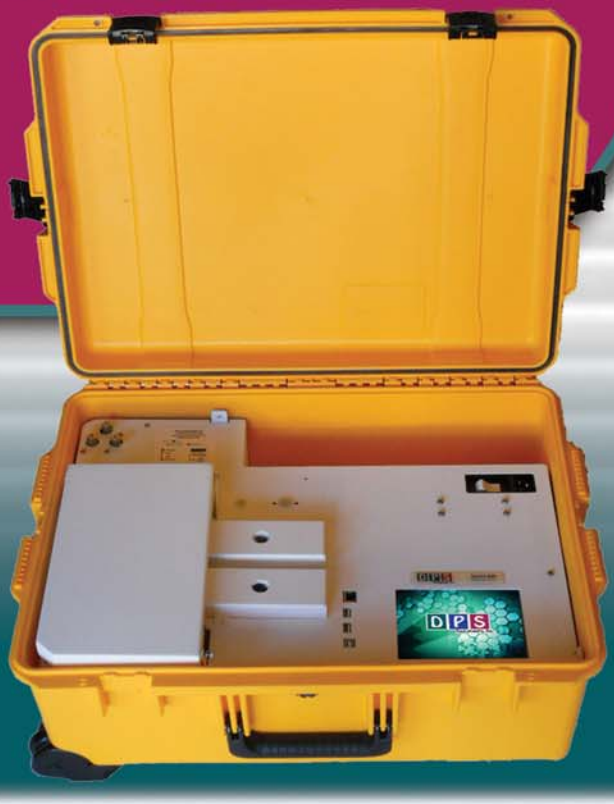
DPS Companion 2 GC

The portable Gas Chromatograph is now more versatile than ever. DPS Instruments, Inc. is pleased to introduce the Portable Companion 2 Gas Chromatograph with room for 2 Detectors. The Companion 2 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 2 GC has not been compromised because of it's smaller size.

The DPS Companion 2 GC Systems are a new breed of GC. They are the first portable GC where you can select 2 of 7 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 2 GC goes where you need it.

The intelligence of the 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. The DPS Companion 2 GC specifications are in a league of their own. The Companion 2 GC, and all DPS GC Systems are smaller, lighter, faster, more intelligent, and have delightful pricing.





General Specifications:

- Modular Design
- Many Standard Application Specific Configurations
- Compact Oven with 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 °C
- EPC Pressure Control to 0.001 kPa
- Ambient to 325 °C Column Oven(s)
- Up to 80 °C per/min Column Oven Ramp
- Fast Cooldown 325 °C to 50 °C in <4 min
- 1 or 2 Detectors
- Compact and Lightweight,
  Water Tight Carrying Case (56 x 43 x 25 cm)
  with wheels and handle Approximately 15 kg.
- 1 or 2 compact gas tanks, sold separately.

Patent Pending

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, Valve, Pump, etc.
- Up to 4 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 Boards
  Microprocessor Controlled
  Proprietary Digital Signal Processing
- 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 or 2 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)
BCD - Bromine Chlorine Detector (10 pg detection limit)
FPD - Flame Photometric Detector (10ng Sulfur, 10 pg Phosphorus 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 18.5 x 14 cm area for Packed, or
  Capillary Columns
- Optional Single Electronic Gas Sample Valve
- Optional Heated Valve Oven
- Optional Vacuum Pump for Sample Inlet
- Optional Built-in "Ultra Quiet" Air Compressor
- Optional High Pressure Gas Cylinder and Regulator

Injectors:

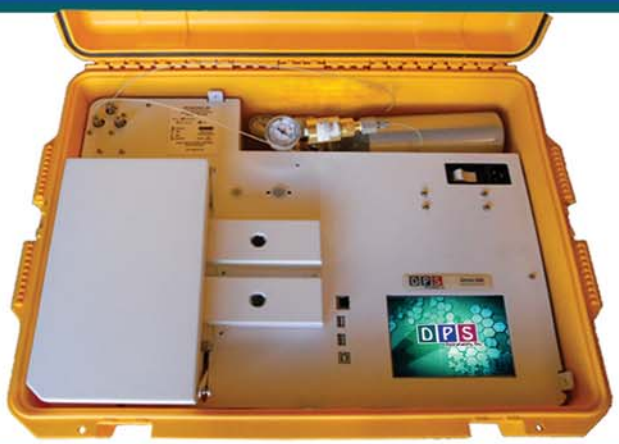
- 1 or 2 Installed
- Cool On-column Injector
- Multiple Pressure Ramps with 0.1 kPa set-point resolution
- Up to 2 control Solenoids

Data Communications:

- Bi-directional communication with popular Data Systems
- Digital Signal Output via USB

Network Connectivity:

- On Board ETX Computer for GC Control and Data Acquisition
- Enterprise Compatible Network GC running Windows XP
- Ethernet Connection using Windows Network Protocol
- 2 USB's to connect External Devices
- Remote Control of GC and Data Acquisition over LAN



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