

Gas Chromatograph

Programmable gas chromatography with eight temperature zones and a seven-inch touchscreen. Select inlet and detector combinations for the sample and analytical method.



Technical Information

Model	PT-GC-001
Display	7-inch color touchscreen
Temperature zones	8
Oven temperature	Ambient +4°C to 450°C
Temperature increment	1°C
Temperature accuracy	±0.1°C
Temperature program	20 steps
Heating rate	0.1-60°C/min
Pressure range, optional control	0-100 psi
Flow range, optional control	0-1000 mL/min
Control resolution, pressure / flow	0.01 psi / 0.01 mL/min
External event channels / auxiliary outputs	8 / 2
Maximum detectors installed	3
Communication	Ethernet IEEE 802.3

Technical Information

FID detection limit	$\leq 1 \times 10^{-12}$ g/s (n-C16 / isooctane)
FID baseline noise / drift	$\leq 5 \times 10^{-14}$ A / $\leq 1 \times 10^{-14}$ A/30 min
FID linearity	$\geq 10^6$
TCD sensitivity	≥ 8000 mV·mL/mg (n-C16)
TCD baseline noise / drift	≤ 20 μ V / ≤ 100 μ V/30 min
ECD detection limit	$\leq 1 \times 10^{-13}$ g/mL (γ -BHC / isooctane)
ECD baseline noise / drift	≤ 0.03 mV / ≤ 0.2 mV/30 min
ECD linear range / source	10^3 / ^{63}Ni
FPD sulfur detection limit	5×10^{-10} g S/s
FPD minimum concentration	0.05 ppm
FPD baseline drift / RMS error	≤ 0.2 mV/h / $\leq 10\%$
FPD oven range above ambient / stability	8-120°C / $\pm 2\%$

Standard configuration

Main instrument, touchscreen and Ethernet interface. The supplied inlet and detector configuration must be specified in the quotation.

Optional configuration

EPC/EFC electronic gas control; packed-column, capillary or six-port gas-valve inlets; autosampler; up to three detectors selected from FID, TCD, ECD, FPD and NPD. Detector performance below applies only to the selected detector.

Selection and ordering

Specify analytes, sample matrix, inlet, detector, carrier gas and utilities. Confirm local requirements for an ECD configuration before ordering.