

GAS CHROMATOGRAPH - 8200



- Color touch screen for complete system control & monitoring.
- Auto tuning PID temperature control.
- EPC for up to 8 channel with 2 programmable zones & 6 isothermal zones.
- Up to 12 auxiliary device control.
- Programmable FID with time based sensitivity settings.
- Programmable TCD with superb current stability & repeatability.
- Extensive auto diagnostics.

Sold & Serviced by :

SYSTRONICS (INDIA) LIMITED

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BRANCH ADDRESS :

BRANCHES AT : BENGALURU, BHOPAL, BHUBANESHWAR,
CHANDIGARH, CHENNAI, GUWAHATI, HYDERABAD, JAIPUR, KOLKATA,
LUCKNOW, MUMBAI, NEW DELHI, PATNA & THIRUVANANTHAPURAM.

The North Star, a touch screen based Gas Chromatograph system comes with smart features & advanced specifications comparable with the best. A fully loaded North Star is self sufficient and can be configured to work as an OLGC, TOGA, RGA, NGA. It can also be coupled with head space & auto sampler systems.

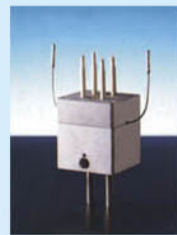
FLAME IONISATION DETECTOR

Operating Temp.	: Ambient to 450°C
Amplifier Gain	: X1, X10, X100
Sensitivity	: > 20 ppb of CH ₄ (1X10 ⁻¹² A)
Linear Range	: 1 X 10 ⁷
Noise	: < 1% / day (< 2 mV)
Drift	: < 1% / day (< 5mV/min)
Zero Balance	: Two multi turn potentiometers
Attenuator	: Rotary type from X1 to X1024
Output	: To recorder 1mV or 10mV or 1VDC to PC



THERMAL CONDUCTIVITY DETECTOR

Operating Temp.	: Ambient to 450°C
Type	: Flow through or semi diffusion
Current Range	: UP to 350mA (adjustable)
Bridge Current Supply	: Constant current mode
Sensitivity	: 100ppm of O ₂ in N ₂
Zero Balance	: Two multi turn potentiometers
Attenuator	: Rotary type from X1 to X1024
Current Monitoring	: By 4 Digit LED
Electronic Amplifier	: Included in design with gain of 10 or 100



ELECTRON CAPTURE DETECTOR

Operating Temp.	: Ambient to 400°C
Types	: Coaxial with 15 mCi source (555MBq) of Ni ⁶³
MDL	: < 0.04 pg/Sec. lindane
Dynamic Range	: > 10 ⁴

NITROGEN PHOSPHORUS DETECTOR

Operating Temp.	: Ambient to 400°C
Sensitivity	: N : < 0.4 pg N/Sec. for azobenzene P : < 0.05 pg P/Sec. for malthion
Linear Range	: N : > 10E(4), P : >10E(3)
Selectivity	: N : 25,000 gN/gC, P : 250,000 gP/gC

PDHID The award winning PDHID detector can be installed in the system, which is universal detector for analysis of low ppm and ppb range. The detector is non destructive type and can be configured to work as ECD, NPD, TID, FPD, FID, HID or TCD depending upon the dopant gas and carrier gas used.

Micro TCD : Dual filament TCD is standalone unit consisting of the detector housing & a controller with electrometer & temperature controls. The detector coil includes two separate Nickel/Iron filaments capable of independent or referenced (differential) operation. Cell volume and geometry are optimized for capillary chromatography and enhanced sensitivity at low flow rates. (Recommended total flow rate: 2-10ml/min)

SPECIFICATIONS

CONTROL SYSTEM

Controller	: 24 bit Micro controller
Controller Interface	: ¼" VGA Touch Screen
Display	: 4000 Colors
Temperature Zones	: Up to 8 - 2 Prog. & 6 Isothermal
Pressure Zones	: Up to 8 - 2 Prog. & 6 Isothermal
Auxiliary Control Zones	: Up to 12 with 4 step Prog.
Numbers of Methods	: Unlimited

COLUMN OVEN

Inner volume	: 22 ltrs.
Temperature Range	: Ambient to 500°C
Cryogenic Option	: Available as option
Temperature Display	: Dual color display PV & SP
Temperature Accuracy	: ±0.5% of set temperature
Temperature Stability	: ±0.1°C
Over heat Protection	: Dual electronics & s/w
Auto Cooling Option	: Forced air cooling auto
Heating Rate	: 50°C to 350°C in 7 min
Cooling Rate	: 350°C to 80°C in 8 min
Programming Steps	: 32 segment ramp and soak
Temperature Setting	: 0.1°C / 1.0°C

CHOICE OF PNEUMATICS

Pressure & Flow Control	: Three stage
Flow Control Option	: FCV/DFC/DMFC/AFC/EPC/EPP/MMV
EPC Settability	: 0.1 PSI to 999 PSI
Programmable Steps	: Up to 16 steps

INJECTORS INLET SYSTEMS

Choice of Inlet Systems	: All available
Number of Injectors	: Up to 4
Temperature Range	: Ambient to 450°C
Temperature Read out	: Dual color display PV & SP
Temperature Accuracy	: ±0.5% of set temperature
Temperature Stability	: ±0.1°C
Over Heat Protection	: Dual electronics & s/w

DETECTORS

Choice of Detectors	: FID/TCD/μ-TCD/PDHID/ECD/NPD
Number of Detectors	: Any 3
Temperature Read out	: Dual color display PV & SP
Temperature Accuracy	: ±0.5% of set temperature
Temperature Stability	: ±0.1°C
Over heat Protection	: Dual electronics & s/w

GENERAL

Results Re-Transmission	: Up to 900 meters optional
Conversion to OLGC	: Yes
Ethernet Connectivity	: Available optionally
Voltage Input	: 220 VAC ±10%
Power Requirements	: 3.5 KVA
Operating Temperature	: 0 ~ 50°C
Humidity	: 0 ~ 90% NC RH
Weight	: Approx. 45 Kgs