

# High Performance, Modular GC

## Instrument

### ProGC+

## Description

The ProGC+ Gas Chromatograph from Thermo is a robust, high-performance instrument with outstanding hardware, software and automation capabilities. A full range of features and accessories make it the ideal instrument for both research grade laboratory GC and for automatic, application-guaranteed analyzer systems.

The ProGC+ column oven provides superior performance in oven heating, cooling and thermal stability. The range of leading-edge injectors with patented design features includes split/splitless, cold on-column, PTV, and packed injectors. Full digital pressure or flow control is provided for all carrier and detector gases. The comprehensive range of optimized high-sensitivity detectors includes thermal conductivity, flame ionization, electron capture, and the ultra-trace pulsed discharge detector. All of the ionization detectors are fully interchangeable, sharing a common base body.

Instrument control is exceptionally easy, using the industry-standard user interface, with additional dedicated keys to speed method setup. The flexible, 90-position autosampler facilitates the programming of a wide range of automatic injection techniques, providing optimum

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## Applications

**Laboratory Quality Control, Research and Development**  
**Industrial & Electronic Gases (UHP H<sub>2</sub>, He, O<sub>2</sub>, N<sub>2</sub>, Ar, CO<sub>2</sub>, HCl, HBr, Cl<sub>2</sub>, BCl<sub>3</sub>, NF<sub>3</sub>, WF<sub>6</sub> etc.)**  
**Natural Gas by ASTM, GPA, ISO standard methods (e.g. N<sub>2</sub>, O<sub>2</sub>, CO<sub>2</sub>, C<sub>1</sub> to C<sub>6+</sub> or C<sub>1</sub> to C<sub>12</sub>; Sulfur Odorants)**  
**Petroleum Refining (Refinery Gas, LPG, Capillary PIANO, Oxygenates, SimDis)**  
**Petrochemicals (Trace CO/CO<sub>2</sub>, Cl<sub>2</sub>, Formaldehyde, Ethylene, Propylene etc.)**  
**Power Generation (Transformer Oil, Nuclear Reactor Gas)**  
**More Applications in Steel, Chemicals, Environmental, etc.**



## Features

ProGC+ is the next generation gas chromatograph, offering top performance for the widest range of users and applications, from research, QC and production laboratories, to automatic online analyzer systems.

**Optimized Column Oven with Fast Heating/Cooling Rates**  
**Comprehensive Electronic Gas Controls**  
**Leading-Edge Injector Designs**  
**Interchangeable Ionization Detectors**  
**Industry-Standard User-Interface**  
**High Performance Autosampler**  
**Versatile Valve Automation**  
**Powerful, Flexible GC Software**  
**Outstanding Serviceability**  
**Widest Range of Application-Guaranteed Analyzer Systems**

Simultaneous or sequential dual injection option  
Flexible solvent wash system

Real 32 bit under windows 95, 98 and NT  
Data acquisition and control via RS 232  
Simple, intuitive setup and full range of functions

ProGC+ with optional valve oven

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## Thermo Electron Corp.

Thermo designs, develops, markets, and services sophisticated laboratory and process analyzers to improve production efficiency and quality assurance, meet regulatory requirements, and enhance safety in the process industries. Company products incorporate advanced technologies to provide real-time analysis, data collection, and control functions.

Thermo products are used in a number of bulk processing industries, including oil and gas, chemical, petrochemical, refining, industrial and specialty gases, iron and steel, pharmaceutical, electric utilities, food and beverage, and semiconductors.

Our worldwide presence and experienced staff enable Thermo to provide rapid, expert preventive maintenance and after-sales support services to our customers.

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