

# PGC5000A Controller

## PGC5000 Series gas chromatographs

Ease of use

Measurement made easy



## Application

### Usage

The PGC5000A Controller provides all of the analyzer system control functions and coordinates internal and external data activities for the PGC5000B and PGC5000C Smart Ovens™. The PGC5000A Controller supports Multiple Smart Ovens™ configurations to maximize application flexibility while minimizing space and utility requirements. Analyzer and control systems communicate via intrinsically safe (IS) Fiber Optic with Redundant Ethernet, Modbus or Modbus RTU.

### Description

The new PGC5000A Controller is designed with a real time embedded operating system (RTOS) to guarantee critical system uptime, security and the highest level of data determination. A local 10 inch graphical, SVGA touch screen with multi-touch control for redundant methods of analyzer navigation at the local analyzer interface constructed in a Simple Tab Layout for ease-of-use.

### Multiple configurations

- Supports up to 4 Smart Ovens™

### Communication interfaces

- Communication interfaces:  
Ethernet, OPC (via VistaGateway), MODBUS, 4-20mA analogs, VistaNET2.0 compatible

### Maximum application flexibility

- PGC5000B Smart Ovens™ target simple applications with a fixed set of features
- PGC5000C Smart Ovens™ target complex applications requiring multiple detectors for maximum application densification

## Physical

### Master controller:

Environmental (enclosure):	Protected from weather: IP 54, (NEMA 3 equivalent)
Ambient temperature range:	0 to +50° C (32 to 122° F)
Humidity:	95% relative humidity, non-condensing
Dimensions:	596.9 mm W x 419.1 mm D x 256.5 mm H (23.5 in. W x 16.5 in. D x 10.1 in. H)
Weight:	20 kg (44 lbs) (minimum, configuration dependent)
Mounting:	Wall: 33 mm (1.3 in.) from wall with brackets Floor: Optional dolly with casters
EMI/RFI considerations:	Conform to class A industrial environment
Electrical entries:	Top

### Safety area classification

CSA / NRTL:	Class I, Division 1; gas groups B, C, D with type Y-purge Class I, Division 2; gas groups B, C, D temperature code T4
ATEX / IEC / CN / KO:	Zone 1 EPL Gb: CE 0344; II2G, Ex ib py IIB+H2 T4 Zone 2 EPL Gc: CE; II3G Ex nA nL IIB+H2 T4
Purge wait time:	18 minutes (Class I, Division 1 / zone 1 area)

### Power

Voltage:	100 – 240 VAC
Frequency:	50-60 Hz
Power consumption:	120 Watts startup and steady-state operation Typical, varies with installed options.

### Instrument air

Supply connection:	1/4 inch tube, minimum
Supply pressure:	414 kPa (60 psig) minimum
Quality:	Instrument grade: Clean, oil free and -34° C, (-30° F) dewpoint
Flow rates:	Steady state purge: 21-25 L/min (0.75-0.78 ft <sup>3</sup> / min) at 20° C, Y-purge types

Specifications subject to change without notice.

## Contact us

### ABB Inc.

#### Process Automation Analytical Measurements

843 N. Jefferson Street  
Lewisburg, WV 24901  
USA

Tel.: 1 304 647 4358

Fax: 1 304 645 4236

Email: [analyzeit@us.abb.com](mailto:analyzeit@us.abb.com)

### [www.abb.com/analytical](http://www.abb.com/analytical)

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