Two-Channel Auxiliary Gas Pressure Controller, 0.7 MPa (100 psi), Accessory G4323A

Installation Guide

Accessory G4323A is an auxiliary 2-channel gas pressure controller and flow on/flow off control which may be used in any application within its control range of 0 to 0.7 MPa (100 psi). Typically, as an example application, it may be used to provide source pressure control to inlet flow controls on an Agilent 6820 Gas Chromatograph.
Parts list

- Two-channel Auxiliary gas pressure controller
- 1/8-inch swage nuts and ferrules

Tools

- 7/16-inch wrench
- Tool suitable for cutting 1/8-inch copper tubing

Installation

The G4323A may be placed in any convenient location not subject to high temperatures and/or large temperature fluctuations.

Instructions following are written in terms of using the G4323A to provide auxiliary pressure regulation to inlets on a 6820 Gas Chromatograph (GC). If used in a different pressure control application, procedures will be similar.

**WARNING** Hazardous voltages are present in the mainframe when the GC is connected to electrical power. Avoid potentially dangerous shock hazards by disconnecting the power cord.

1. Switch off electrical power to the GC and disconnect its power cord. Switch off supply gases at their sources.

**CAUTION** Pressure regulators may be damaged if exposed to high temperature, or pressure regulation may be poor if environmental temperature fluctuates widely. For these reasons, the G4323A should NOT be located on top of a gas chromatograph (high temperature), or behind the top of a gas chromatograph where the oven may vent its heated air causing large periodic temperature fluctuations.

2. Place the G4323A in its intended location.
If you are using Hydrogen (H₂) as a source gas, note that it is both flammable and an explosion hazard when mixed with air in an enclosed space (for example, the oven). In any application using H₂, turn off the supply at its source before proceeding.

3 Refer to your *Getting Started* manual for both proper tube cutting and swage techniques to connect source gas supply tubing to each desired G4323A pressure control channel fitting, GAS 1 IN or GAS 2 IN.

4 Similarly, connect tubing from each G4323A pressure control channel fitting used, GAS 1 OUT or GAS 2 OUT, to the supply fitting for the desired inlet flow control module.

5 Restore gas supplies and, following leak test procedures described in your *Maintenance and Troubleshooting* manual, check for leaks, particularly at all new connections.

6 Reinstall the removed GC side panel.

7 Restore GC electrical power.
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CAUTION

A CAUTION notice denotes a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in damage to the product or loss of important data. Do not proceed beyond a CAUTION notice until the indicated conditions are fully understood and met.

WARNING

A WARNING notice denotes a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in personal injury or death. Do not proceed beyond a WARNING notice until the indicated conditions are fully understood and met.