

# Flow Controller



**Gas Mixer for All  
Quantachrome<sup>®</sup> Dynamic Flow Instruments**

# QUANTACHROME'S GAS MIXER/FLOW CONTROLLER

- **Mixes gases for the Monosorb<sup>(R)</sup> surface area analyzer & ChemBET<sup>TM</sup> TPR/TPD/TPO analyzer.**
- **Eliminates the need for many tanks of premixed gases.**
- **Continuously variable gas concentrations.**
- **Calibrated for 16 different mixtures with other combinations possible.**
- **Simple to use, accurate and reliable**

Continuous flow adsorption measurements for BET surface area, chemisorption and TPR/TPD/TPO analysis require precise gas mixing and stable flow rate control. The Gas Mixer offers two channels, each with a high precision linear mass flow controller. The flow rate through each channel may be varied by the operator allowing the relative concentration of a two-gas mixture to be easily established and maintained.

The Gas Mixer eliminates the need for many tanks of pre-mixed gases. Adsorbate (active) and carrier gases can be easily mixed to desired concentrations and flow rates are maintained constant throughout the measurement. Digital presentation of flow rates provides for easy selection and confirmation.

- Attaches to Monosorb<sup>(R)</sup> and ChemBET<sup>TM</sup> in seconds.
- Digital flow presentation in standard cm<sup>3</sup>/min.
- Utilizes linear mass flow controllers for accurate and reproducible flow rate control.
- Flow rates are rapidly dialed in with digital ten-turn potentiometers.
- No moving parts insure long and trouble-free service.

## FLOW CONTROLLER SPECIFICATIONS

### Flow Control Specifications

<b>Flow Rate Range:</b>	0.2 - 20 standard cm <sup>3</sup> /min. for each gas
<b>Flow Precision:</b>	0.1%
<b>Flow Resolution:</b>	0.01 cm <sup>3</sup> /min.
<b>Gas Supply Pressure:</b>	5 to 50 psig

### Physical

<b>Depth:</b>	22.9 cm (9 in.)
<b>Width:</b>	26. cm (10.5 in.)
<b>Height:</b>	35.6 cm (14 in.)
<b>Weight:</b>	10.9 kg (24 lbs.)

### Electrical

<b>Power:</b>	110-120VAC or 220 VAC 50/60Hz
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Argentina  
Australia  
Austria  
Belgium  
Brazil  
Canada  
Central America  
Chile  
China  
Colombia  
Czech Republic  
Denmark  
Egypt  
Finland  
France  
Greece  
Hong Kong  
Hungary  
India  
Indonesia  
Ireland  
Israel  
Italy  
Jamaica  
Japan  
Korea  
Latin America  
Malaysia  
Mexico  
Middle East  
Morocco  
Netherlands  
New Zealand  
Norway  
Pakistan  
Peru  
Philippines  
Poland  
Portugal  
Puerto Rico  
Russia and CIS  
Saudi Arabia  
Singapore  
South Africa  
Spain  
Sweden  
Switzerland  
Taiwan  
Thailand  
Turkey  
Uruguay  
Venezuela  
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### Field Service

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We view the field support of our instruments as an essential component of our business strategy. Our expert scientists are always available to answer questions on applications, or the use of our instruments. We do this as a standard service regardless of whether you have a service contract with us or not.



### Partners in Science

Quantachrome has a scientific research department consisting of world renowned experts in material characterization. Our staff, led by Dr. Matthias Thommes, conducts collaborative research projects with leading material research labs around the world. They regularly publish articles in leading peer reviewed journals, and speak at technical symposiums around the world.

For almost half a century Quantachrome's scientists and engineers have revolutionized measurement techniques and designed instrumentation to enable the accurate, precise, and reliable characterization of powdered and porous materials.

We have an unwavering commitment to providing state of the art technology, along with superior and unparalleled customer service and support.

Our commitment to customers is to support you before, during, and after the sale throughout the lifetime of our instruments. This is a big commitment because our products are so robust and reliable that we regularly find many still in use for decades.

### Corporate Headquarters-USA Quantachrome Instruments

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