

Flow Controller



**Gas Mixer for All
Quantachrome[®] Dynamic Flow Instruments**

QUANTACHROME'S GAS MIXER/FLOW CONTROLLER

- **Mixes gases for the Monosorb^(R) surface area analyzer & ChemBETTM 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^(R) and ChemBETTM in seconds.
- Digital flow presentation in standard cm³/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

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

Physical

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

Electrical

Power:	110-120VAC or 220 VAC 50/60Hz
---------------	----------------------------------

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
Vietnam



Quantachrome Instruments' corporate headquarters in Boynton Beach, Florida.

Quantachrome®

Renowned innovator of ideas for today's porous materials community.

For 45 years, 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:

- Adsorption/Desorption Isotherms
- Surface Area Measurement
- Pore Size Distribution
- Chemisorption Studies
- Water Sorption Behavior
- Mercury Porosimetry
- True Solid Density
- Tapped Density

Not only are Quantachrome products the instruments of choice in academia, but the technology conceived and developed by our expert staff is applied in industrial laboratories worldwide, where research and engineering of new and improved porous materials is ongoing. Manufacturers also rely on porous materials characterization technology to more precisely specify bulk materials, to control quality, and to isolate the source of production problems with greater efficiency.

Quantachrome is also recognized as an excellent resource for authoritative analysis of your samples in our fully equipped, state-of-the-art powder characterization laboratory.



Quantachrome Instruments Application Laboratory.

CORPORATE HEADQUARTERS

Quantachrome Instruments

1900 Corporate Drive
 Boynton Beach, FL 33426 USA
 Phone: +1 (561) 731-4999
 Fax: +1 (561) 732-9888
 E-mail: qc.sales@quantachrome.com
www.quantachrome.com

CHINA

Quantachrome Representative Office

M806. Jingbao Garden
 183 Andingmenwai Street
 Beijing 100011, China
 Tel/Fax: +86 10 64400892
www.quantachrome-china.com

EUROPE

Quantachrome UK Limited

Pale Lane Farm, Pale Lane
 Hartley Wintney
 Hook RG27 8BA, UK
 Phone: +44 (0) 125 281 9719
 Fax: +44 (0) 125 281 9901
www.quantachrome.co.uk

EUROPE

Quantachrome GmbH & Co. KG

Rudolf-Diesel Str. 12
 85235 Odelzhausen, Germany
 Phone: +49 (0) 8134 93240
 Fax: +49 (0) 8134 932425
www.quantachrome.de

JAPAN

Quantachrome Instruments Japan G.K.

KSP W311 Sakado 3-2-1, Takatsu-ku
 Kawasaki-shi, Kanagawa 213-0012
 Japan
 Phone: +81 44 829 1525
 Fax: +81 44 829 1527
www.quantachrome.co.jp



Quantachrome Instruments' quality management system is certified to be in accordance with ISO9001:2008.

WORLDWIDE SALES AND SERVICE

- | | |
|-----------------|----------------------|
| Argentina | Mexico |
| Australia | Middle East |
| Austria | Morocco |
| Bahrain | Netherlands |
| Belarus | New Zealand |
| Belgium | Norway |
| Brazil | Oman |
| Bulgaria | Pakistan |
| Canada | Peru |
| Central America | Philippines |
| Chile | Poland |
| China | Portugal |
| Colombia | Puerto Rico |
| Croatia | Romania |
| Cyprus | Russia |
| Czech Republic | Saudi Arabia |
| Denmark | Singapore |
| Egypt | Slovak Republic |
| Estonia | Slovenia |
| Finland | South Africa |
| France | South Korea |
| Germany | Spain |
| Greece | Sri Lanka |
| Hungary | Sweden |
| India | Switzerland |
| Indonesia | Taiwan |
| Ireland | Tanzania |
| Israel | Thailand |
| Italy | Turkey |
| Jamaica | Ukraine |
| Japan | United Arab Emirates |
| Jordan | United Kingdom |
| Kuwait | Uruguay |
| Latin America | Uzbekistan |
| Latvia | Venezuela |
| Lithuania | Vietnam |
| Malaysia | |

Quantachrome

INSTRUMENTS

Serving Porous Materials and Powder Characterization Needs Since 1968



www.quantachrome.com

Trademarks and registered trademarks are the property of their respective owners.