MIX-2000 Digital Gas Mixer

Applied Analytics Data Sheet No. DS-901A

Highly automated digital gas mixer.

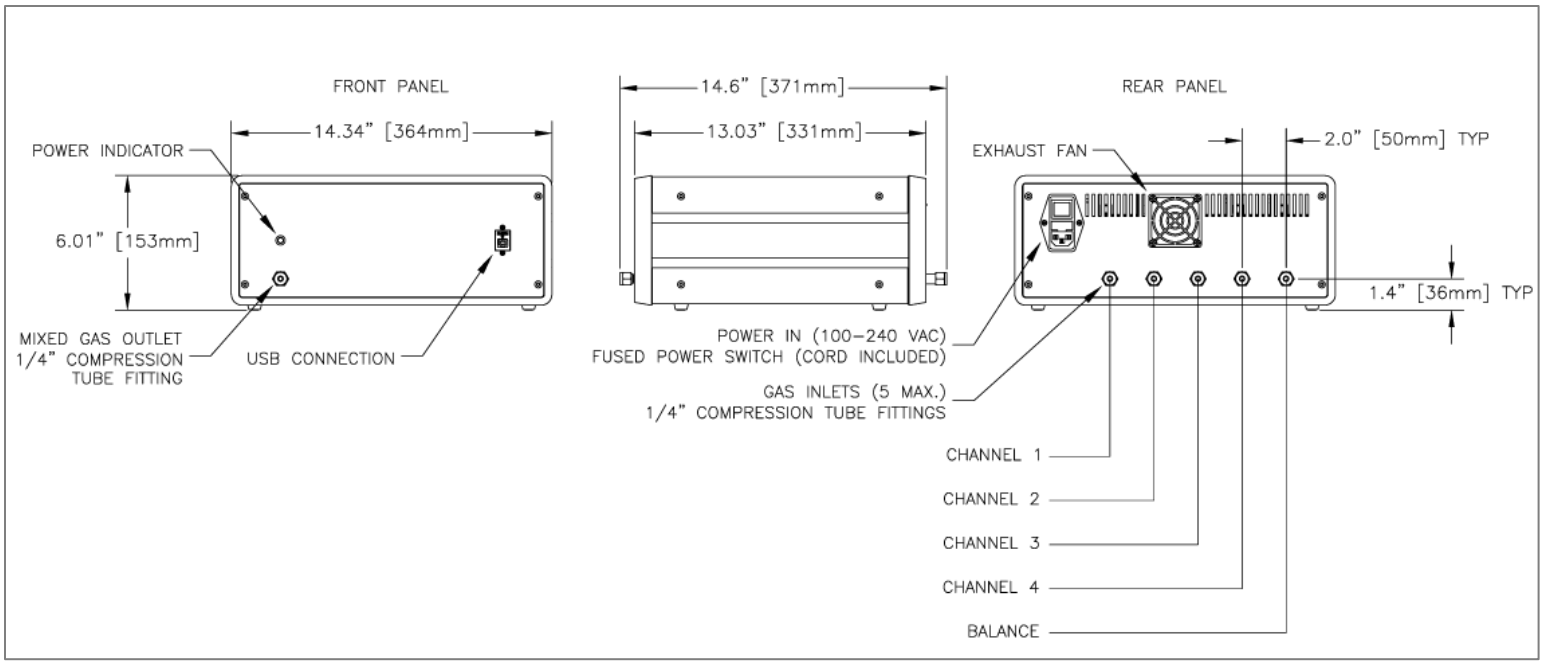
The MIX-2000 Digital Gas Mixer features thermal mass flow controllers to ensure precise and repeatable production of complex gas mixtures. Designed for scientists and laboratory professionals, it comes with a compact notebook PC preloaded with MIX control software. The system allows for simultaneous mixing of up to five different gases, eliminating the need for manual calculations.

Features

- » Automates the creation of accurate and repeatable gas mixtures using digital thermal mass flow controllers
- » Mixes up to five different gases simultaneously
- » Supports user-defined dynamic mixing sequences with time-based routines
- » Ideal for analyzer calibration, process simulation, CEMS testing, and a wide range of other applications

MIX-2000 Dimensions

The MIX-2000 is engineered to occupy minimal space, allowing convenient integration.

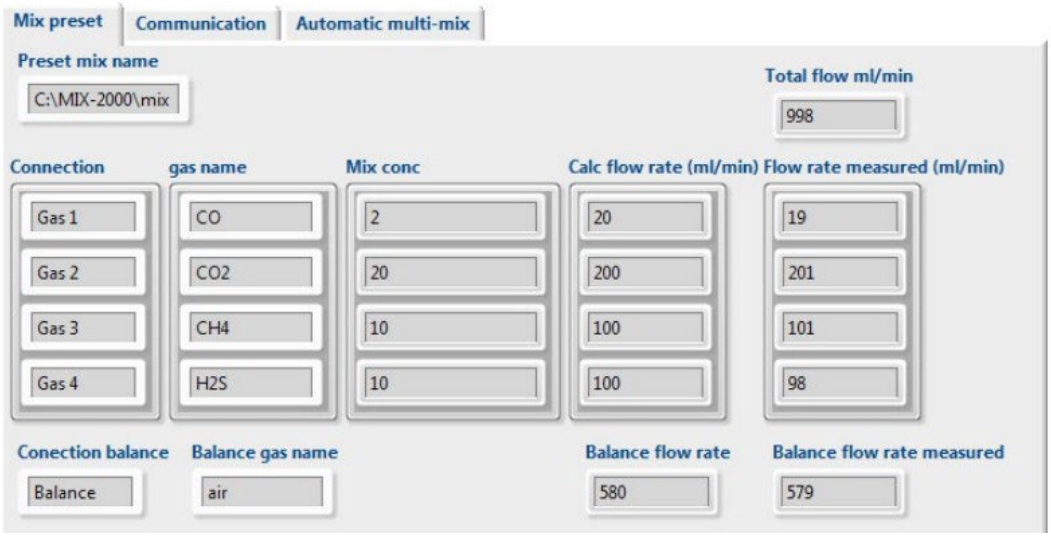


Dead-Simple Setup

The gases to mix are connected at the rear of the mixer, which provides 5 input ports.

PC to MIX-2000 Control

The MIX-2000 ships with a pre-configured notebook PC to provide a control interface for the device. The MIX-2000 connects to the PC via USB cable.



Creating a new mix preset is as easy as defining the gases and their target concentrations. The MIX Software automatically calculates the required flow rates, applying correction coefficients for each gas.

Mix presets can be saved to local drive for future use. Thanks to the Windows-based interface, the software supports an unlimited number of mix presets, limited only by available storage.

Subject to modifications. Specified product characteristics and technical data do not serve as guarantee declarations.

Technical Data	
General	
Gas Flow Control Technology	Digital Mass Flow Controller
Channels	2-5 input channels; 1 output channel
Controllable Gases	136 built-in gas correction factors; additional custom gases can be added by the user
Response Time / Control Time	10s/100ms
Accuracy	± 1% of full scale (per channel)
Repeatability	± 0.5% of full scale (per channel)
Calibration	factory calibrated for flow range(s)
Measurement Dynamic Range	1% to 100% of full scale
Scope of Supply	
MIX-2000 Digital Gas Mixer	-Aluminum desktop enclosure containing up to 5 digital mass flow controllers -Backpanel configured for connection of up to 5 gases via 1/4” compression tube fittings -Front panel configured for 1 output gas mixture via one 1/4” compression tube fitting -Standard USA Type B electrical power cord
Notebook PC	-Windows™ 10 (or later) -MIX-2000 Software -Communication cable for interfacing with the MIX-2000 -Electrical power cord
Hardware Specifications	
Wetted Materials	Standard: Anodized Aluminum & Brass, Viton Seals, 316 SS Ext. Connections Options[1]: 316SS, Buna, EPR, or Kalrez Seals, 316 SS Ext. Connections
Communication	Via serial / USB interface to included Notebook PC
Electrical Requirements	100 to 240 VAC; 47 to 63 Hz
Power Consumption (mixer)	Minimum: 20 Watts

APPLIED™ ANALYTICS is a registered trademark of Applied Analytics, Inc. | www.aai.solutions

Headquarters
Applied Analytics, Inc.
Burlington, MA | sales@aai.solutions

Asia Pacific Sales
Applied Analytics Asia Pte. Ltd.
Singapore | sales@appliedanalytics.com.sg

India Sales
Applied Analytics (India) Pte. Ltd.
Mumbai, India | sales@appliedanalytics.in

North America Sales
Applied Analytics North America, Ltd.
Houston, TX | sales@appliedanalytics.us

Middle East Sales
Applied Analytics Oil & Gas Operations, L.L.C.
Abu Dhabi, UAE | sales@appliedanalytics.ae

Europe Sales
Applied Analytics Europe, AG
Genève, Switzerland | sales@appliedanalytics.eu

Brazil Sales
Applied Analytics do Brasil
Rio de Janeiro, Brazil | vendas@aadbl.com.br

© 2017 Applied Analytics, Inc. Products or references stated may be trademarks or registered trademarks of their respective owners. All rights reserved. We reserve the right to make technical changes or modify this document without prior notice. Regarding purchase orders, agreed-upon details shall prevail.