



MCQ GAS BLENDER 6000 SERIES

6 Channels Gas Mixer

ALL YOU NEED FOR GAS MIXING IN ONLY ONE COMPACT INSTRUMENT



The MCQ 6000 Series is a dedicated solution for gas mixing and gas dilution, specifically designed for laboratories. With Gas Blender 6000 Series, you can dynamically mix or dilute six different non-aggressive gases with only one instrument. The competitive advantages of the Gas Blenders solutions are:

Make your own dynamic gas mixture

Control all parameters with a single click

INTUITIVE SOFTWARE

The mixing software bundled for free allows direct access and control to Gas Blender 5000 Series parameters. Thanks to a user-friendly interface, you can manage the mixing process by intervening directly on the single channel to modify and control both the final blending and your dynamic dilution. You can also define a different gas type for each input channel. Upgrading to the .PRO software version you will be able to define custom gas mixtures and easily re-use them in multiple applications.

Automated Feedback-test-system

With Gas Blender 6000 Series, you can create, save and load your automatic mixture program, set the percentage of each channel, the total flow of the gas mixture and processing duration. The program code can be edited anytime, exported to an external file and reloaded later.

Your gas mixing solution in a single and transportable box

High versatility in one instrument

Touch Display for stand-alone Solution

The Gas Blender 6000 it's a stand-alone device letting you controlling all the paramaters and accessing to all the main features by the Touch Display. External management it's possible aswell through the USB, Ethernet (*) and digital RS485(*) interfaces.



COST EFFECTIVE, MADE IN ITALY AND CERTIFICATE

Gas Blender 6000 Series a CE, TUV and cTUVUS certified product. The product has met the both the European and US consumer safety, health and environmental requirements. Our products are completely realised in Italy.



Market Analysis

- **Research and Development (R&D) labs, institutes and centers**
 - Calibration of instruments
 - Preparation of test gases
 - Analytical equipment
 - Regulation of gaseous atmospheres
 - Local preparation of a gas mixtures
 - Chemical laboratory
- **Analysis**
 - Gas Chromatography
 - Quality Control
- **Food and Beverage**
 - Regulation of controlled atmospheres
- **Life Sciences**
 - Biotechnology
 - Regulation of gaseous atmospheres
 - Studies on cell cultures Medicine Pharmaceuticals



BLUETOOTH AND WI-FI CONNECTIVITY

Gas Blender 6000 Series is Bluetooth and Wi-Fi Ready (*). This functionality allows customer to remote control of the instrument or to create a net of instrument.

**The function in question will be implemented in the future.*



PROFIBUS (Process Field Bus) is a standard protocol for fieldbus communication in the automation technology.



Simulink, developed by MathWorks, is a graphical programming environment for modeling, simulating and analyzing multidomain dynamic systems.



Modbus is a serial communications protocol for use with its programmable logic controllers (PLCs). It is now a commonly available means of connecting industrial electronic devices.

“Mixture Creator Free” allows to manage the mixing process by intervening directly on the single channel to modify and control the final blending or the final dynamic dilution. It also allows the management of each channel to define the input gas type provided from your own cylinder.

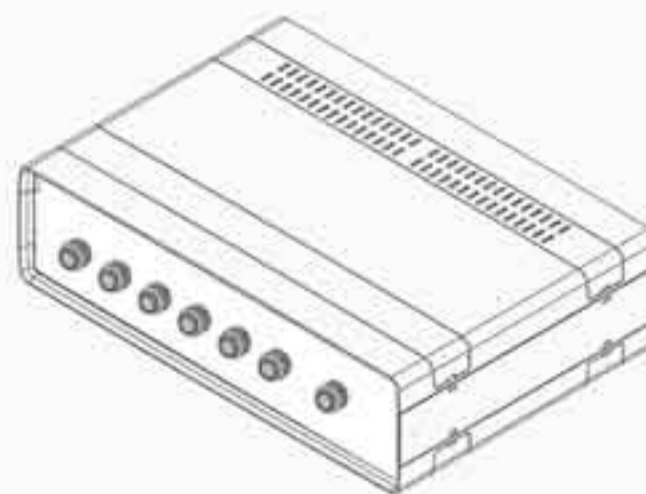


“Mixture Creator Pro” adds the ability to set your supplied particular gas mixture and to create, save and load your own dynamic mixture program. You can also choose the percentage of each channel and set the time you want to supply each mixture you have created.

ACCURATE. COMPACT. RELIABLE.

The MCQ Gas Blender 6000 is the solution for non-aggressive gas mixing and dilution. It's an innovative all-in-one replacement for traditional mass flow controllers multi-channel solutions. Our device allows 6 channel gas mixing processes, all in a single compact box (lab in a box) controlled by the Touch Panel or by the external software.

 <p>HIGH ACCURACY</p>	 <p>TOUCH SCREEN</p>
<p>Native calibration on available gas (*) with 1% of accuracy on the read value for each channel.</p>	<p>Touch Display allows customer to control all the parameters via instruments display creating stand-alone using of the instrument.</p>
 <p>LAB IN A BOX</p>	<p>MIX UP TO 6</p> <p>MULTI GAS MIXER</p>
<p>All the tools at hand, one, compact and easy to transport box. The modularity approach allows to realize multi functional systems in a compact structure.</p>	<p>Customize the number of channel you will need for your tests creating from two to six channels mixing solutions.</p>









SPECIFICATIONS

Accuracy (for each channel)	N2, 20 °C, 101325 kPa (1 atm): ± 1.0% of full scale
Repeatability	0,10% of reading
Response time (for each channel)	500 ms
Power Supply	In Bundle
Operation Pressure	Max 3 bar
Working Temperature	0-50 °C
Mass Flow Rates (for each channel)	0 - 5000 sccm (standard)
Gases*	N2, O2, CO2, CH4, Air, He, H2
Communication	USB PC Interface RS 485 with open proprietary protocol
Output Channel Fittings	Push-in fittings for 6-4mm tubes. Other on request
Inlet Gas Channel	6 Input
Outlet Gas Channel	1 Output of mixed gases
User Interface	Gas mixing software. Touch Display.

* additional gases supported on request

DISCOVER THE GAS MIXER FAMILY

MCQ Gas Mixer 6000 is part of the Gas Mixer family which includes the following series:

	Gas Mixer 2000 series 	Gas Mixer 3000 series 	Gas Mixer 4000 series 	Gas Mixer 6000 series 
Mixeable Gases	2	3	4	6
Gas Mixing Software				
Touch Display		