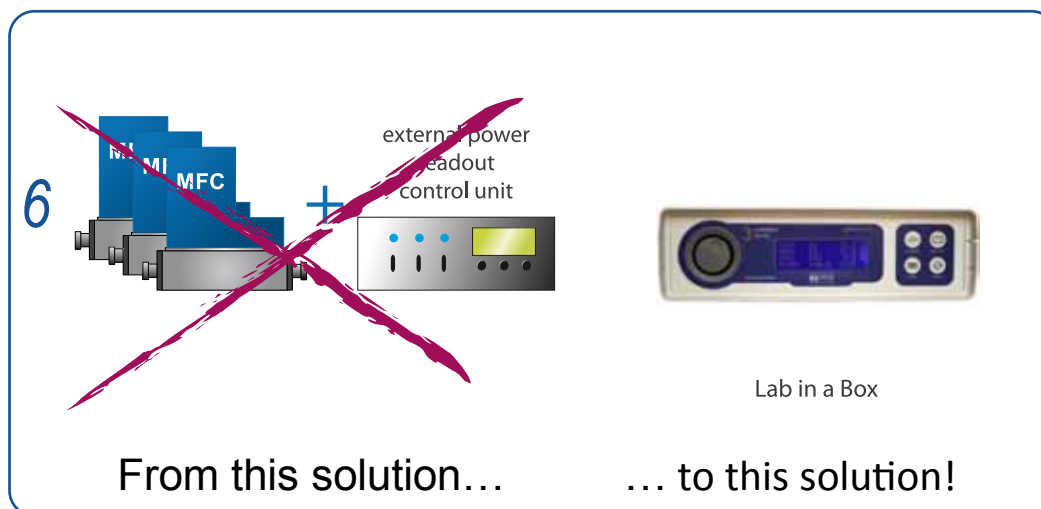




MCQ Gas Blender 200 Series

6 Channels Gas Mixer
(preliminary Datasheet)

Technical Data Sheet



Specifications:

- Mixing and Blending up to 6 channels for non-aggressive gases.
- Fully digital.
- Accuracy for each channel: 1 % of set point (from 10 to 100% FS)
0,5% FS (from 0 to 10% FS)
- Measurement range up to 200 sccm for each channel.
- Needs No External Power & Control Unit.
- Needs No expensive and cumbersome tubing and fittings.
- Compact and transportable structure "Lab in a Box".
- USB interface.
- Push-in connector for inlet gas.
- Free Software (Mixing or Blending percentage, Type of Gas, Temperature, Full Scale Value and other functions)
- Power Supply: 12 – 36 V AC/DC.
- BUS RS 485 (connect up to 64 Gas Blenders to obtain different mixing and blending solutions).
- Rotary Encoder to set Mixing percentage.
- 4 lines LCD Display.

The MCQ Gas Blender 200 Series is the solution from MCQ Instruments for gas mixing and gas dilution problems. Instead of multi-channel solutions using mass flow controller and external power supply and readout, MCQ Instruments offers a six-channels solution in a compact box at a very convenient price (Lab in a Box).

Through a 485 BUS different Gas Blenders can be connected together allowing user to control up to 64 different devices.

This approach significantly reduces development costs of the system and its maintenance (Fast Time-to-Market solution) and permits to obtain multi-gas mixing solutions with an high dilution factor at a very convenient price.

All inlet and outlet tube fittings are push-in technology-based.

MCQ Instruments Gas Blender 200 Series have an intuitive user interface directly on the Box with a 4 lines LCD, 4 push-function buttons and a rotative encoder to set blending percentage.

PERFORMANCE SPECIFICATION	Accuracy (for each channel)	N ₂ , 20°C, 101.325 kPa (1 atm)	
		10 - 100% FS	1% of set point
		< 10% FS	0,2% of FS
	Repeatability	0,35% of reading	
	Response Time (for each channel)	50 ms	
	Power Supply	12 - 36 V AC/DC	
	Operation Pressure	Max 25 psi	
Working Temperature	0 - 50° C		
MATERIALS	Materials Valve	Steel/Brass, Viton	
	Materials Tubes	Viton/Tygon/Polyurethane	
OPERATING SPECIFICATION	Mass Flow Rates (for each channel)	0 - 200 sccm	
	Gases	All none-aggressive gases	
	Input channel	USB PC interface	
		RS 485 with open proprietary protocol	
	Output Channel	0 - 5 V, Max 80 mA	
	Output Signals	Digital: BUS RS 485 with open proprietary protocol	
	Fittings	Push-in fittings	
	Inlet Gas Channel	6 Input	
Outlet Gas Channel	1 Output of Mixed Gas		
User Interface	Push Button Control	4 push-button functions control	
	Display	4 lines LCD Display	
	Knob	Rotary Encoder	

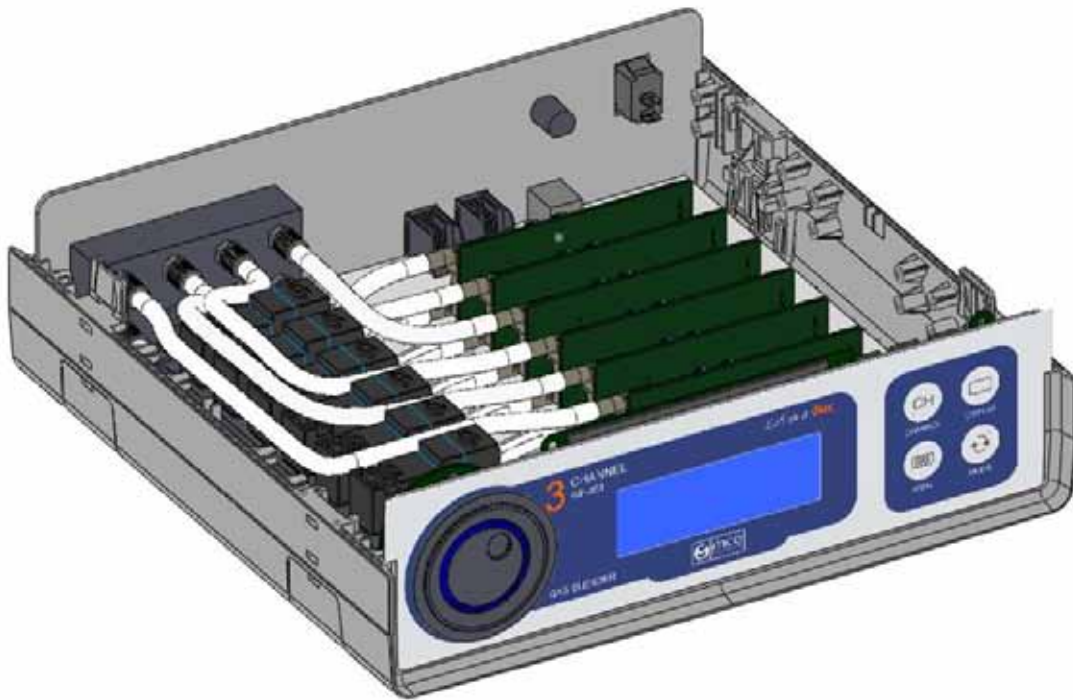
MCQ Gas Blender 200 Series

High Performance Gas flow Dilutor & Gas flow Mixing System with User Interface

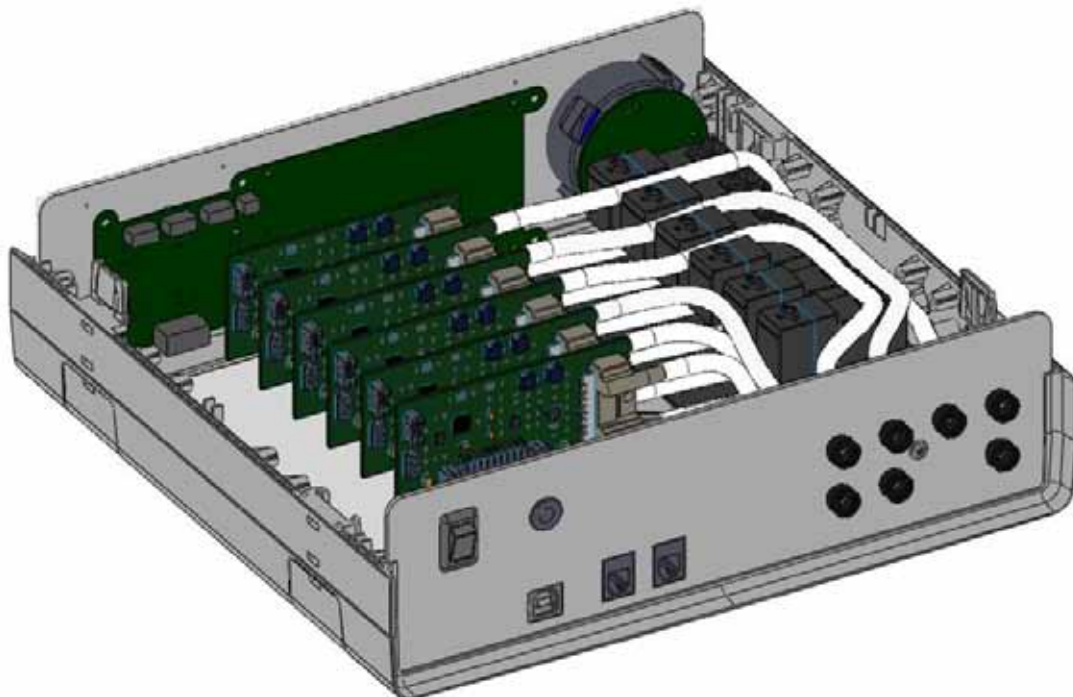


3D Views:

Front view:



Rear view:



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