SONIMIX 7100

MFC Gas Mixer

The **Sonimix 7100** is a gas mixer mainly used to calibrate and linearize gas monitors and to generate specific gas mixtures.

The **Sonimix 7100** is based on the principle of gas flow through MFC (Mass Flow Controllers) and is built according the ISO 6145/7 standards. This instrument provides a very high flexibility allowing to combine multigas mixtures (up to 5 gases + a balance gas) and multi-range functionality.

The touch-screen LCD interface provides simple and user-friendly management of all functions on the unit.

All models make automatic calculation in function of the used gases types. The **Sonimix 7100** is totally compatible with the US EPA methods and can be easily linked with National Standards (NIST, METAS, UKAS...)

Each mass flow controller is factory calibrated in 10 points by a traceable primary standard.

Main applications

- Quality control of gas analysers and sensors
- Gas analysers and sensors production
- Interference measurement

Main advantages

- ✓ Fulfilment of ISO 14481 standards CEM (QUAL 1 to QUAL 3)
- ✓ ISO 6145/7 standards
- ✓ High accuracy (2% rel.)
- ✓ constant gas flow and pressure
- ✓ high dilution range 0.1% to 100%
- ✓ No maintenance
- ✓ Cost savings Reduce gas cylinders costs
- Corrosive gases can be used with the optional SilcoNert © coating
- ✔ Remote control
- ✓ Ergonomic with LCD display







Specifications

Models: Sonimix 7100	Sx 7100 2L1R	Sx 7100 2L2R	Sx 7100 2L3R	Sx 7100 Multi Gas	
General data					
Dilution range	10 – 100 %	1 – 100 %	0,1 – 100 %	At configuration, mix up to 6 cylinders	
Dilution principle	Mass Flow Controllers				
Dilution gas line flow accuracy	0.5 % (rel.) + 0,1 FS				
Source gas line flow accuracy	0.5 % (rel.) + 0,1 FS				
Repeatability on flow	0.2% (rel.)+ 0,1 FS				
Accuracy on dilution	Better than 2% (rel.) according to ratio dilution				
Warm up time	< 45 min				
Stabilization time	(**************************************				
Tightness	< 10-7 mbar I/s verified by He detection				
Operating temperature					
Dimensions	19" 3HE/84 TE , 500mm deep				
	portable casing in option				
Net weight	15 - 20 Kg				
Gas inlet requirments					
Dilution gas:	Requires dry (-40°C DP) Air, Nitrogen or other carrier gas				
Source gas:	·				
Pressure					
Fittings	Swagelok 1/4"				
Gas outlet requirments Flow:	3.5 L/min (other flow rate upon request)				
Pressure	, (,				
Fittings					
Communication			Swager	OK 1/4	
RS 232			Stan	dard	
Ethernet TCP/IP		Standard			
USB	Standard				
Electrical data			3 00.11		
	230V/50-60Hz				
Power supply voltage	115V/60Hz				
	100V/50-60Hz				
Installed power (Max)		65 - 150W			

