

СИСТЕМА КОНТРОЛЯ ВОЗДУХА MAS-100 CG EX



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MAS-100 CG Ex[®]

The MAS-100 CG Ex[®] system is for use when there is a need to test compressed gases for microbial contamination. Utilizing two sensors, one to measure mass flow and the other for pressure, the unit collects samples under the pressure of the gas supply. The MAS-100 CG Ex[®] system samples at two constant flow rates, 100 L/min and 50 L/min for low flow applications. The system will sample gas at a pressure range between 1.5 bar to 10 bar. Compressed gas is directed through a perforated plate onto the 90 mm Standard Petri dish.

After sampling of the required volume of gas, a gradual decompression occurs automatically, preventing any sudden pressure change, avoiding possible damage to the microorganisms and improving recovery. After decompression, the Petri dish is removed and incubated.

The MAS-100 CG Ex[®] system is the only compressed gas microbial air sampler approved for use in Zone 2 explosion hazard areas. The MAS-100 CG Ex[®] is calibrated with compressed air. Due to our unique mass flow sensor technology, only a mathematical correction factor is required to sample other gases. There is no need to calibrate for specific gases. The unit is pre-programmed for compressed air, nitrogen, carbon dioxide, argon and oxygen. No calculations are

needed for correction of density etc., and a total of 10 gas protocols can be programmed and stored in the unit. The MAS-100 CG Ex[®] sampler makes compressed gas sampling easy and accurate. The automated collection process saves time and eliminates the awkward manipulations required with manual methods.



Technical specifications

MAS-100 CG Ex®	
Height	32.5 cm
Length	37.0 cm
Width	11.0 cm
Weight (without Sampling Head)	10 kg
Material Box	Coated aluminum
Nominal Flow Rates	100 liter/min. $\pm 5.0\%$ (over the pressure range) of 1.5 bar to 10 bar (absolute) 50 liter/min. $\pm 5.0\%$ over the pressure range of 1.5 bar to 10 bar (absolute)
Standard Sampling Volumes	50, 100, 250, 500, 1000 liter
Freely definable sampling volumes	1 to 2000 liter, volumes individually selectable between 0 and 2000 liters. 0 volumes are not displayed
Pre-programmed gas types	Air, nitrogen, carbon dioxide, argon
Battery Pack	20 cells NiMH, 3800mAh, voltage 24 V
Battery Charger	110-240 Volt, 50-60 Hz
Charger Input	36 V DC, 1.5 A
Display	Alphanumeric liquid crystal display, 32 characters
Lifetime RTC Battery	Approx. 10 years
Flow Valve	Proportional, 24 Volt
Processor:	Type: 80C552
Gas Regulation	Mass flowmeter and pressure sensor 0-10 bar and proportional valve
CE Approval	EN61000-6-1; 2001, EN61000-6-3; EN61000-6-2; 2001, EN61000-6-4; 2001; EN61326-1 + A1; 1998
Ex-Proof	SNCH 02 ATEX 3418, EN1127; 1997, EN 50021; 1999
Sampling Head	
Head without Clamps, Height	16.0 cm
Diameter	10.0 cm
Weight	1.5 kg
Material	Anodized aluminum, clamps of stainless steel
Autoclavable	20 minutes at 121°C
Tubing	Length, 1.5 m ID=10 mm OD=19 mm, sterilize for 20 min at 121°C
Rapid Connectors	Chromium-plated brass

Ordering Information

MAS-100 CG Ex® Air Sampler	1.09327.0001
with sampling head (50 L/min), hose, mains charger, operator's manual on CD	
MAS-100 CG Ex® Sampling Head	1.09237.0001



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