



AIR. NOTHING ELSE.

# EVEN BETTER UNDER PRESSURE.

MAS-100 Atmos: The new microbial sampler  
for compressed gases.

# ATMOS. QUALITY IN A NEW SPHERE.

Perfection involves never standing still and constantly improving your own products. Here at MBV we do just that. The MAS-100 Atmos compressed gas sampler leads the way here. For your convenience. For your safety. For your data integrity. Its ease of use, additional elements regarding safety, compliance with data integrity requirements and configuration flexibility contribute to making the MAS-100 Atmos an indispensable instrument for microbiological testing of process and medical gases over a wide range of applications.

The integrated mass flow sensor regulates the opening of the control valve automatically and with high precision. This ensures a constant gas flow. The microorganisms contained in the gas are impacted on the nutrient plate under pressure and then gently brought back to ambient pressure.

Be inspired by the quality that stems from more than 35 years of experience and passion.



Autoclavable **PRESSURE CONNECTION TUBE**

Standard **TRI-CLAMP CONNECTION**

**ON/OFF BUTTON** with coloured LED status display

User-friendly **SAMPLING HEAD** with mechanical safety lock

Autoclavable 300 x 0.6 mm **PRECISION PERFORATED LID**

**HARDWARE KEY READER** for 21 CFR Part 11-compliant user management

Unique **PERFORATED LID MARKING** for maximum workflow traceability (readable and scannable)

Intuitively operated **TOUCHSCREEN** with graphical user guidance

Standardised and easily accessible **ELECTRICAL INTERFACES**

**GAS OUTLET** with possibility of connecting an exhaust tube



**THERE IS A LOT BEHIND THE NEW MAS-100 ATMOS - CHECK OUT THE INSPIRING DEVELOPMENT STORY IN A SHORT FILM**

# DATA MANAGEMENT: COMPLIANT AND INDIVIDUAL

The MAS-100 Atmos is designed to meet your needs. It is adaptable and easily integrated into your work processes. By recording a complete and tamper-proof audit trail, workflows are always documented, transparent and traceable in accordance with data integrity. Equally clever are the optional configurations that support 21 CFR Part 11-compliant workflows. They include user management integrated into the instrument incorporating function-based roles affording reliable tracking of all user activities. Optionally, relevant data can be forwarded directly to software (LIMS/EM) by using the sampling barcode. Error-free data transmission can be ensured by this digitised workflow.



**FIND THE PERFECT INSTRUMENT  
CONFIGURATION TO MEET  
YOUR APPLICATION NEEDS**





## OPERATION: INTUITIVE AND CONVENIENT

Ease of use is a top priority for the MAS-100 Atmos. The compressed gas sampler impresses with its particularly intuitive user interface and the straightforward handling of the sampling head. Flow is automatically regulated during sampling - even with limited flow rates. Decompression is also fully automated. The intelligent instrument design allows for convenient and thorough cleaning and disinfection. The MAS-100 Atmos compressed gas sampler can be easily configured from the computer via the browser-based user interface.





## PROCESS RELIABILITY: WELL THOUGHT OUT AND COMPREHENSIVE



The MAS-100 Atmos has been designed around a comprehensive safety concept. For one thing, an intelligent mechanical protection mechanism prevents the sampling head from opening unexpectedly while the compressed gas sampler is pressurized. Furthermore, it is fitted with a high quality HEPA H13 (ISO 35H) protective filter. This serves to protect the inside of the instrument while preventing the emission of particle-laden outgoing gas and reducing the need for servicing. Optionally, for additional industrial safety, a tube can be attached to safely remove the tested gas.





## MAS-100 ATMOS. TICKS THE BOXES.

- ✓ Tried and tested sampling principle – gentle to germs under pressure
- ✓ Reliable technology – automatic flow regulation
- ✓ Maximum ease of use – optimised design incorporating touchscreen
- ✓ Transparent workflow – compliant with data integrity guidelines
- ✓ Flexible configuration – for paper- or software-based workflows (LIMS/EM)



### TECHNICALLY SOUND. THE MAS-100 ATMOS IN FIGURES.

- Gas types: compressed air, Ar, N<sub>2</sub>, CO<sub>2</sub> with automatic gas volume compensation
- Pressure range: 1.2 – 7 bar (absolute)
- Weight: 7.3 kg
- Flow rates: 50 or 100 L/min with optional automatic flow mode reduction
- Gas flow accuracy ± 5%
- Physical cut off diameter d<sub>50</sub> of 1.1 µm
- Battery capacity for up to 5 hours
- 4.3-inch HD touchscreen
- Interfaces: USB-C, Ethernet, USB-A
- Browser-based user interface providing an extended range of features

# CALIBRATION: PROPER SETTINGS LEAD TO ACCURATE RESULTS.

It is very simple – a reliable microbial measurement cannot be obtained unless the sampling volume is accurate. For this reason, you should have the gas flow of your microbial sampler checked annually. Our experts can calibrate the MAS-100 Atmos compressed gas sampler here in Staefa or directly at your site and ensure traceable calibration in accordance with the highest international standards (accredited in accordance with ISO 17025).

PLEASE CONTACT US.  
WE ARE HAPPY  
TO PERSONALLY  
INTRODUCE YOU TO  
THE MAS-100 ATMOS.

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**EVEN MORE INFORMATION, EVEN MORE  
KNOW-HOW - EVERYTHING YOU NEED  
TO KNOW ABOUT THE MAS-100 ATMOS**