

# Explosion Proof Air Sampler MAS 100Ex

*The unit is constructed according to the safety requirements specified in the norm DIN/VDE 0165 "Installation of electrical apparatus in hazardous areas (Ex V)" and tested and certified according to prEN 50021 "Specification for electrical apparatus with type of protection 'n'(non sparking)."*



*The  
MAS 100Ex  
Air Sampler combines all  
the well-established advantages  
of the MAS 100, s.a.*

- Handling*
- simple dialog guidance software*
- runs with commercially available 90 mm Standard Petri dish*
- integrated volume sensor for correct and reproducible results*
- certified calibration*
- year 2000-compliance integrated*

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# Technical information

## ■ MAS 100Ex

The MAS 100Ex is used for the microbiological monitoring of the air in explosion proof zones. The principle is based on the Andersen Air Sampler. The MAS 100Ex Air Sampler meets the requirements of the "Regulations for medicines and the European Community" (volume IV). The air velocity is 0.45 m/sec for horizontal aspiration (laminar), the air impact speed to the culture medium is < 20 m/sec, the airflow rate 100 litres/minute. These data comply with the recommendations given in the International Standard ISO/CD 14698-1 (1996).

## ■ Explosion Proof Specification prEN 50021: 1996 (CEN/CENELEC\*)

The MAS 100Ex is permitted in zone 2 according to SN-SEV 1000 (NIN)\*\* as well as gasgroups IIA, IIB and IIC characterized by flammable substances of temperature class T1 to T4. The safety-technical requirements specified in the German Norm DIN/VDE 0165 for the "Installation of electrical apparatus in hazardous areas" are met.

\* European Committee for Electrotechnical Standardization; Switzerland is a CEN member

\*\* Swiss Electrotechnical Committee; Schweizerischer Elektrotechnischer Verein

## ■ Technical specification

- airflow: 100 litres/minute
- exchangeable battery pack;  
remote operation: 7 hours
- mains charger: 110 – 240 Volts
- black anodised aluminium housing
- norm threaded hole for camera tripod
- autoclavable perforated lid (400 holes)
- programmable start-delay function  
(1 to 60 minutes)
- preprogrammed collection volumes: 10, 20, 50, 100, 200, 250, 500, 750 and 1.000 litres
- 1 volume of choice programmable
- adjustable sampling head (any angle between horizontal and vertical)
- dialog operated
- real time and date
- factory calibrated (with certificate)
- dimensions: height: 29 cm, diameter: 11 cm
- weight: approx. 2.2 kg

## ■ Ordering information

Cat.-No.	description	pack size
1.09075.0001	MAS 100Ex (explosion proof) Air Sampler System (colour: black)	1 case

## ■ Contents

- 1 MAS 100Ex System with perforated lid, dust-cover and battery pack;
- 1 mains charger (110 – 240 V), 1 Allen-key, 1 plastified correction table acc. to Feller;
- 1 calibration certificate, 1 certificate for zone proof;
- 1 Operators Manual (identical with MAS 100 Air Sampler)

## ■ Optional accessories and additional products

1.09124.0001	perforated lid (in black) for MAS 100Ex Air Sampler	1 ea
1.09123.0001	dust-cover (in black) for MAS 100Ex Air Sampler	1 ea
1.09082.0001	adapter for glass Petri dish (max. outer-Ø: 93 mm; max height: 18 mm)	1 pack
1.09087.0001	battery pack (accu: 10 V) for MAS Air Samplers	1 ea
1.09089.0001	calibration unit MAS 100C	1 ea
1.09090.0001	MAS 100 Air Sampler (colour: silver)	1 ea

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