



# DASGIP<sup>®</sup> MX4/4, MX4/4H

## DASGIP MX Performance Plans

Bioprocess systems include several sophisticated technologies. Peak performance requires smooth interplay of the subsystems and fully functioning consumable parts. Regular maintenance by qualified engineers helps to ensure reliable operation, while deferring it can cause unreliable results, expensive repairs, and prolonged downtime.

The DASGIP MX4/4 gas mixing system supplies four separate culture vessels with independent mixtures of air, N<sub>2</sub>, O<sub>2</sub>, and CO<sub>2</sub>. Each gas outlet has separate setpoints for flow rate, and concentrations of O<sub>2</sub> and CO<sub>2</sub>. Regular

maintenance is crucial to ensuring reproducible and reliable gas mixtures for your cell culture applications and microbial fermentations. Fast and precise calibration and adjustment of your gas mixing system can be performed on-site, which minimizes down time.

Eppendorf Bioprocess Performance Plans help you to maintain the optimal performance of your equipment over years of frequent use.

**Bioprocess maintenance —  
see the advantage!**

**eppendorf**

Performance tested on

Model: \_\_\_\_\_

Serial no.: \_\_\_\_\_

Serviced by: \_\_\_\_\_

Service no.: \_\_\_\_\_

Next service: \_\_\_\_\_

Date: \_\_\_\_\_

**epServices**  
for premium performance

# DASGIP® MX Performance Plans

Service Operation	ESSENTIAL CHECK	ADVANCED MAINTENANCE	PREMIUM SERVICE	Installation Qualification/Operational Qualification (IQ/OQ)*
<b>Order Number</b>	0082 150 123	0082 150 124	0082 150 125	0082 150 129
<b>External Inspection</b>				
General condition of DASGIP® MX module and attached cables	■	■	■	■
<b>Internal Inspection</b>				
Check/update of firmware	■	■	■	
Check/exchange of internal battery	■	■	■	
Check of internal settings	■	■	■	■
<b>Functional Check</b>				
Operational check of inline gas filter		■	■	■
Operational check of alarm functions on all channels/gasses	■	■	■	■
Operational check of gas inlets/outlets	■	■	■	■
<b>Verification</b>				
Verification of valve resistance		■	■	
Characterization of mass flow sensor performance	■	■	■	
Verification of gassing system tightness		■	■	
<b>Calibration and Adjustment</b>				
Calibration and adjustment of inline pressure sensors		■	■	
Calibration and adjustment of valve current of flow valves		■	■	
Calibration and adjustment of mass flow sensors		■	■	
<b>Documentation</b>				
Check list provided	■	■	■	
Dated service sticker to confirm Eppendorf service	■	■	■	■
IQ/OQ report and certificate				■
<b>Supporting information</b>				
Contract period	one year	one year	one year	n/a
Number of preventive services included	one	one	one	n/a
Costs of repair/parts replacement outside scope of preventive maintenance visit (where Eppendorf product warranty has expired)	not included	not included	discount on parts, labor, travel time	n/a

\*Separate purchase of IQ/OQ documents will be necessary

Your local distributor: [www.eppendorf.com/contact](http://www.eppendorf.com/contact)  
 Eppendorf AG · Barkhausenweg 1 · 22339 Hamburg · Germany  
[eppendorf@eppendorf.com](mailto:eppendorf@eppendorf.com) · [www.eppendorf.com](http://www.eppendorf.com)

[www.eppendorf.com/epServices](http://www.eppendorf.com/epServices)