# MAESTROGUARD®

## ANALYZER PROTECTION FILTERS

## RELIABLE GAS ANALYSIS
## STARTS WITH A CLEAN AND STABLE SAMPLE.

PROTECTS WHAT MEASURES – MAESTROGUARD®




MaestroInert
MAESTROGUARD



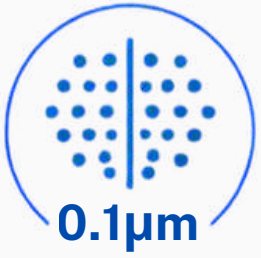
# Why MaestroGuard®?

MaestroGuard® filters provide the final line of defense for gas analyzers in demanding process and environmental applications.




## ABSOLUTE LIQUID STOP

Hydrophobic 100% PTFE membrane barrier with true 0.1 µ pore size reliably stops liquids, condensate, aerosols, amines, glycols and hydrocarbons – preventing carry-over and protecting your analyzer at all times.




## TRUE 0.1 µm FILTRATION

Advanced PTFE membrane technology with true 0.1 µm pore size provides high retention efficiency for fine particles, aerosols and mists – ensuring clean, stable and accurate measurements.



## GAS FLOW – NOT BLOCKED

Engineered for low differential pressure and high flow capacity. Gas flows freely through the filter while contaminants are retained – no blocking, no flow interruption.




## MaestroInert™ Surface Technology (Optional)

For trace and corrosive gases.
Reduces adsorption, improves clear-down and supports fast, stable analyzer response.



# MaestroGuard® Product Overview

## MF-60

Final Protection
Small Volume



Compact final filter directly before the analyzer. Low internal volume for fast response.

**Typical flow:**
0 – 300 ml/min

**Bypass:**
0.2 – 1 Nl/min

## MF-100

Final Protection
Standard



Most versatile final filter for general analyzer applications.

**Typical flow:**
0 – 1.5 L/min

**Bypass:**
0.5 – 2 L/min

## MMF-80

Inertial Pre-Separation
+ Membrane



High liquid load and fast protection of the whole sample system.

**Typical flow:**
0 – 1.5 L/min

**Bypass:**
1 – 5 L/min

## MCF-100

Coalescing +
Membrane



Coalescing pre-separator with membrane protection for heavy liquid and aerosol loads.

Typical flow:
0 – 1.5 L/min

**Bypass:**
0.5 – 3 L/min

## CF-50

Coalescing Filter



Coalescing filter for liquid and particle removal in gas streams.

**Typical flow:**
up to 50 L/min

## PG-50

Process Gas Scrubber
(Selective Filtration)



Process gas scrubber for selective filtration of gas components in process gas such as H2O, H2S, HCl, HF, NOx, NH3, $Cl_2$ .....

**Typical flow:**
up to 6 L/min

## MAESTROAIR

Ambient Air Filter



Protection for ambient air sampling and air quality analyzers.

**Typical flow:**
up to 6 L/min

All MaestroGuard® filters are available in 316L stainless steel and other materials on request.

Options: MaestroInert® coatings, special seals (FFKM, PTFE, EFP), various connections.

# MaestroGuard® Applications

Designed for a wide range of industries and critical gas analysis applications.

### NATURAL GAS GC & BTU

Reliable protection for GC, BTU and process gas analyzers.

### HYDROGEN & ELECTROLYZERS

Protects analyzers in $H_2$ production, storage and fuel applications.

### BIOGAS & RENEWABLE

Ideal for biogas, landfill gas and other renewable gas streams.

### REFINERY & PETROCHEMICAL

Safeguards analyzers in refineries, crackers and chemical plants.

### EMISSIONS & PROCESS ANALYZERS

For CEMS, process control and environmental monitoring systems.

### DEW POINT & MOISTURE MEASUREMENTS

Ensures accurate moisture and dew point readings in all gas streams.

### ANALYZER SHELTERS & OEM SYSTEMS

Compact and robust protection for shelters, skids and OEM packages.

### SAMPLE SYSTEM PROTECTION

Reduces maintenance, downtime and analyzer failures.

### CORROSIVE & AGGRESSIVE ENVIRONMENTS

With MaestroInert™ coatings for $H_2S$, HF, HCl, $NH_3$ and more.

### GENERAL ANALYTICAL APPLICATIONS

Suitable for a wide range of analytical gas applications.

**Make MaestroGuard® your standard final analyzer protection.**

State-of-the-art protection for clean, stable and reliable gas analysis.