

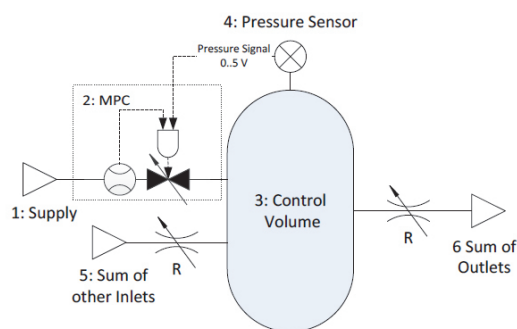
## Mass Flow-Based Pressure Controller MPC 2000 Series

Axetris – the OEM specialist for flow control solutions – offers a flexible platform to combine mass flow and pressure measurement for quick and precise gas flow control.

With a vast experience in MEMS-based mass flow control technology, Axetris now helps OEM customers by combining pressure and mass flow control to create an Electronic Pressure Controller (EPC) par excellence. Axetris achieves superior performance compared with traditional pressure controllers by using an innovative two-stage cascade control system. This innovative feature allows for an extremely stable pressure control, combined with an ultrafast response.



The Axetris MPC 2000 Series is available in standalone and compact OEM versions for easy integration into analytical instruments



Representative block diagram of a mass flow-based pressure controller

### Applications

- Gas Chromatography  
e.g. Carrier gas control in both Flow and Pressure Mode
- Mass Spectrometry  
e.g. Collision Cell pressure control
- Laser Spectroscopy
- Elemental Analysis

### Advantages Axetris MPC

- Outstanding pressure control performance compared to standard Electronic Pressure Controllers (EPCs)
- Ultrafast response (ms)
- Easy configuration of control parameters (PID)
- Absolute flow reading
- Switch between pressure and flow control modes

### Typical Values

Flow Range: 0 – 15,000 sccm

Pressure Range: 0 – 10 bara

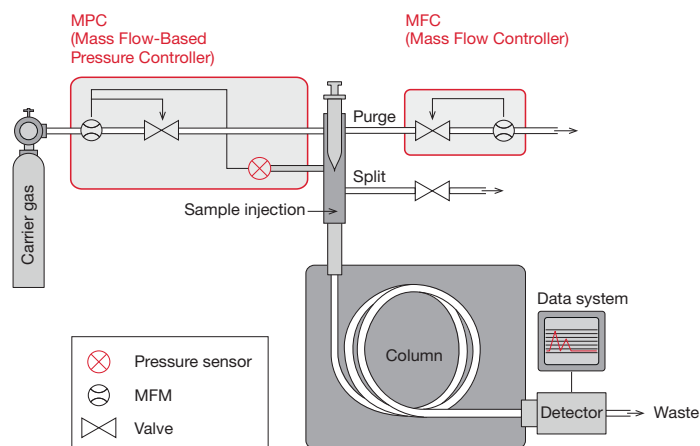
Gases: N<sub>2</sub>, Air, He, H<sub>2</sub>, O<sub>2</sub>, CO<sub>2</sub>, Ar, etc.

Digital Interfaces: RS232 TTL/EIA, RS485 FD

Execution: OEM Module / Standalone

### Axetris Competence

Axetris application experts can support analytical instrument OEMs design flow control systems to maximize instrument performance while optimizing costs.



*Typical integration of a mass flow-based pressure controller for carrier gas control in gas chromatography (GC)*

### About Axetris Mass Flow Meters and Controllers

Axetris offers OEM mass flow meters (MFM) and controllers (MFC) which offer outstanding value to the customer. The proprietary, platinum-based MEMS chip technology guarantees excellent accuracy and repeatability in combination with high speed and an extended dynamic range.

The Axetris mass flow technology is used by many leading companies in the fields of gas chromatography, leak testing, thermal analytics, mass spectroscopy, thin film deposition, plasma engineering and more.



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**Swiss Made Quality.** Axetris is an ISO 9001:2015 certified enterprise.