

Switch-6

Multi-Channel Gas Selector

Switch-6: Multi-Channel Gas Inlet Controller



*Figure 1: Automatic
Multi-channel Gas Inlet Controller*

The automatic multi-channel gas inlet controller, **Switch-6**, features an integrated design, enabling one-button switching among multiple gases and supporting up to six input ports. Users can select any gas path for output as needed, making it ideal for applications requiring frequent gas changes during various testing procedures.

This device is highly compatible, designed to work seamlessly with the full range of AMI instruments and a wide variety of systems from other manufacturers.

Safety

Features a streamlined valve disassembly and assembly when switching between different gases, significantly reducing the risk of leakage from manual operations. Additionally, a corrosion-resistant version is available upon request to accommodate more demanding environments.

Simplicity

Enables automatic gas switching with a single button press. It also performs automatic pipeline purging, preventing residual gases from affecting the accuracy of subsequent experimental results.

Expandability

Supports six input ports and one output port, with the option to cascade multiple units—allowing for 6, 12, 18, or more gas paths as needed.

	Switch-6
Number of ports	6 (12, 18 are optional)
Tubing size	1/8 inch
Pressure	Near atmospheric
Gas types	N ₂ , H ₂ , Ar, and other gases (corrosive gases such as H ₂ S, NH ₃ , HCl, etc., are available as options)
Dimensions and weight	L 2.9 in (73 mm) × W 9.5 in (240 mm) × H 10.0 in (253 mm), 11 lbs (5 kg)