Sampling Accessories
Filtering Light

MPM-2000 Optical Multiplexer

Our MPM-2000 Fiber Optic Multiplexers take light to your spectrometer or from a light source (connected to one of the input ports) and distribute it to either 8 or 16 outputs. The light is distributed through the output ports in sequential order with switching times between channels of less than 150 milliseconds. These precision instruments are ideal for process environments where multiple locations need to be measured with a single spectrometer channel or light source.

High-Precision

All versions of our MPM-2000 include a DC motor that provides excellent speed control without sacrificing power. An included encoder converts movement into a digital pulsed output. Each channel in the MPM-2000 has a collimating lens that connects to an internal optical fiber system. Plus, the MPM-2000 provides accurate measurements with superior repeatability of 99%.

Software Controlled

Our MPM-2000 Multiplexers interface easily with your PC via an RS-232 port and come with software and drivers for complete PC control. The MPM-2000's software allows you full control of the switching order, switching delay time and system calibration.

Specifications	
Dimensions:	230 mm x 200 mm x 150 mm
Wavelength range:	250-800 nm – UV-VIS 350-2000 nm – VIS-NIR
Optical throughput:	>60 % when using standard 400 um fibers @ 650 nm
Motor:	Direct-current
Repeatability:	>99%
Switching time:	150 ms between adjacent positions
Interface:	RS-232 (optional USB)
Power requirement:	24 VDC, 1.2 A (includes WT-24V-E power supply)
Connectors:	SMA 905

Available Items	
MPM-2000-UV-VIS400-1X16	1x input 16x output channels, RS-232 controlled, 24VDC. 400 µm fiber.
MPM-2000-UV-VIS400-2X8	2x input 8x output channels, RS-232 controlled, 24VDC. 400 µm fiber.
MPM-2000-VIS400-1X16	1x input 16x output channels, RS-232 controlled, 24VDC. 400 µm fiber.
MPM-2000-VIS400-2X8	2x input 8x output channels, RS-232 controlled, 24VDC. 400 µm fiber.
MPM-2000-VIS600-1X16	1x input 16x output channels, RS-232 controlled, 24VDC. 600 µm fiber.
MPM-2000-UV-VIS600-1X16	1x input 16x output channels, RS-232 controlled, 24VDC. 600 µm fiber.
MPM-2000-VIS600-2X8	2x input 8x output channels, 600µ Fiber, RS-232 controlled, 24VDC. 600 µm fiber.

Fiber Optic Variable Attenuator

Our FVA-UV Fiber Optic Variable Attenuator is an opto-mechanical device that helps you control the amount of light transmitted between two fibers. Fibers screw into either side of the FVA-UV via SMA 905 connectors with collimating lenses that project light across a metal disk in which a slit has been cut. The width of the slit varies as a function of manually adjusted radial position. Rotating the disc varies the attenuation from 0-100% uniformly across a 200-2000 nm wavelength range.

Item Code: FVA-UV Fiber Optic Variable Attenuator, FVA-ADP Adapter for FVA-UV

Specifications	
Dimensions:	38.1 mm x 59.4 mm x 40 mm
Weight:	90 g
Assembly ports:	3/8-24 threads for collimating lenses
Wheel lock:	6-32 nylon thumbscrew
ADP adapter:	Directly attaches to a light source with a collimating lens
Connector:	SMA 905