Portable, Field-ready Recirculating Multiplexer

- Available with 8 or 16 sampling ports
- Accommodate up to 64 sampling locations
- Leading gas analyzer and data logger integration
- Portable, weather resistant construction

The eosMX is a portable, weather resistant recirculating multiplexer that offers unmatched flexibility for automating coordinated gas sampling in a lab or field setting. Choose between 8 or 16 sampling ports and connect up to 4 eosMX units to sample from up to 64 locations using a single gas analyzer.

Flexibility to Support Varied Applications

The eosMX, can be used with any eosAC-Series automated soil gas flux chamber, or to coordinate sampling from manual chambers, incubation experiments, and more. Through its customizable automated sampling, the eosMX-16 can reduce human error in sampling. In addition to controlling Eosense autochambers, the eosMX also provides software assistance for manual chamber users.

Datalogger Integration

For additional flexibility, you can also control your sampling routine and eosAC or eosAC-LT/LO chambers through popular external dataloggers, such as the Campbell Scientific CR1000X or CR6, for a fully integrated data stream. Eosense provided datalogger libraries allow you to build a measurement routine quickly and easily - or add chamber measurements to an existing program with minimal effort.

Auxiliary / Analyzer Data Input

The eosMX provides several analog voltage inputs, allowing you to include additional auxiliary data with your chamber measurements. This allows you to record additional environmental measurements - or gas analyzer measurements, to simplify data integration. For example, connecting an analog PAR sensor to the eosMX allows users to continuously collect PAR data independent of chamber measurements so transparent chamber users have the ability to easily identify flux measurements collected under cloud cover.

Portable, Weather Resistant Construction

The eosMX was designed for the field. The instrument is housed in a rugged, durable, easy to carry protective case that is dust and weather resistant. To resist rust and corrosion, the fittings are made of nickel plated brass and come with caps to protect the instruments ports when they are not in use.

To ensure quick and easy deployment in the field, the eosMX comes equipped with push-to-connect chamber port fittings and the staggered port layout makes it easy to install chambers and keep tubing and cables organized. The 12-15 V DC power connection makes the eosMX readily usable with solar power installations.

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Specifications

General

Dimensions (L × W × H)	53 x 41 x 20 cm (21 x 16 x 8 in)
Weight	11.3 kg (25 lb)
Operating Temperature	0 - 45 °C

Coverage Area

Maximum radius from eosMX to chambers	30 m
Maximum diameter of measurement circle	60 m

Power

Operating voltage	12-15 V DC
Operating power (peak)	~4 W (16 ports)
Operating power (idle)	~2 W (16 ports)

Communication

Required ports	PC / Analyzer: 1 x USB Datalogger: 3 x RS485
Analog Inputs	4x 0-5 V (10-bit)
Connectivity Ports (*compatible connectors required)	***USB-B** Sealed connection for PC or analyzer control ***M12-A 8P F** Sealed connection for pass-through of serial communications (RS485) for datalogger control ***M12-A 5P F** Sealed connection for 0-5V analog input