SPECTROS INSTRUMENTS
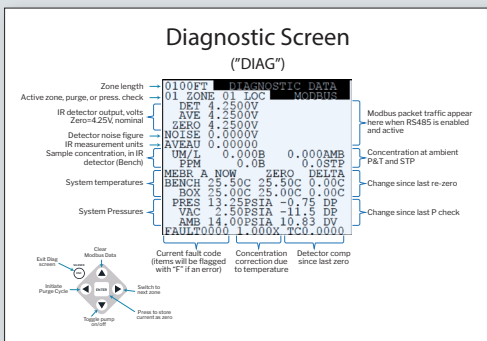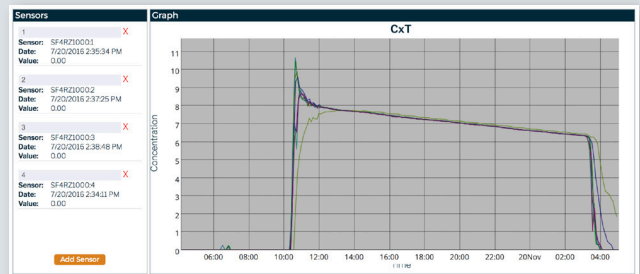
MB400 Data Sheet
Version 1.0 February 2018

MB400
Methyl Bromide Fumigation Monitor

Continuously monitor multiple fumigation points using advanced infrared technology and the latest in network communication protocols.

The rugged, modular design of the MB400 delivers unmatched methyl bromide fumigation performance. The user may access multiple sampling points on-site or remotely via a secure encrypted web portal. Methyl Bromide concentration values for each zone are viewed in real-time then automatically archived for later review. This actionable intelligence transforms raw data into informed decision making.

Diagnostic Screen
("DIAG")

WiFi, 3G Cellular & Satellite, Ethernet, PLC Integration

displayed on any Internet-connected device

CH₃Br **MB400** Multi-Zone Methyl Bromide Fumigation Monitor

Gas Specifications

Product Type	Methyl Bromide (CH$_3$Br)
Coverage	4 zones standard (8,12,16 zone options)
Measuring Range	0-10,000ppm (1%) Options
Monitoring Distance	500ft./150meters (sample + exhaust)
Detector Type	NDIR (Non-Dispersive Infrared)
Accuracy	+/- 1% (50-3000ppm) +/- 3% (full scale)

Interface

Front Panel	3 Indicator lights
Data Logging & Web Portal Upload	• Advanced microprocessor command and control • Data Storage with continuous data transfer to Spectros Instruments Web Portal and archival option of 1 million record storage
Displays	(1) Color touchscreen web interface; (2) Monochrome LCD monitor
Sampling Frequency	User selectable for automatic on/off collection of data and storage onboard and/or on secured web portal

Electronics Specifications

Response Time/Flow Rate	Dependent on gas-sample line length; 0.25" OD x 0.17" ID tubing
Power Safety Mode	Fully automatic system reset; all programmed parameters retained
AC Power	100 – 240 VAC;50/60Hz
Power Consumption	20 Watts

Physical Specifications

System Noise	Less than 40dB(A) at 10 feet
Operating Temp	32° - 122°F (0 - 50°C)
Ambient Humidity	5% to 90% RH (non-condensing)
Temperature Drift	±0.3% of reading per C°
Altitude Limit	6,562 ft. (2,000m)
Size/Weight	22"H x 14"W x 6"D, 16 lbs