



revised 2/4/99

ORDELA MODEL 8200A-AGM AUTOMATIC GAS MANAGEMENT CONTROLLER

DESCRIPTION

The ORDELA Model 8200A-AGM Automatic Gas Management Controller simplifies and automates routine gas control operations required to operate a frisch-grid ionization chamber such as the ORDELA Model 8208A and 8210A. The Model 8200A-AGM is contained in a rugged aluminum enclosure that can either stand alone on the bench top or mount in a standard 19" wide rack. The Model 8200A-AGM easily integrates with a regulated gas supply and the ORDELA Model 8200A-PPS-115 Portable Pump Station (not included) to provide a complete, automated gas handling system.

The ORDELA Model 8200A-AGM provides a vacuum gauge readout with single set point to monitor the evacuation of the ionization chamber. A process control readout allows controlled pressure back-fill of the ionization chamber with counting gas. The system offers user-selectable manual or automated modes. Manual functions include Chamber Pump Down, Stand-by, and Purge. In the Auto Start, the controller evacuates the ionization chamber and then back fills with counting gas to user-selectable pressure.

All pressure gauges, control valves, and required plumbing and wiring connections required to interface the system with the ORDELA large-area ionization chambers are included with the Model 8200A-AGM Controller.

CONTROLLER OPERATIONS AND SPECIFICATIONS

MANUAL PUMP:	Front panel switch - Activates valve to vacuum pump. Holds the system in pump down mode.
MANUAL STAND-BY:	Front panel switch - Closes all valves. The system is then idle.
MANUAL PURGE:	Front panel switch - Activates back fill valve and holds the system in purge mode. This feature purges the ionization chamber while the chamber housing door is open for sample changes. Purging the detector during sample changes minimizes radon contamination in the chamber.
AUTO START:	Front panel push button - Closes back fill valve and activates vacuum valve until a vacuum set point pressure is reached on the vacuum gauge. When the vacuum pressure set point is reached, the vacuum valve is closed and the back fill valve is opened. The system stays in the back fill mode until reset by depressing the Auto Start button again.
OUTPUTS:	HV Disable - Rear panel BNC connector; provides contact closure to ground for disabling the high-voltage power supply. This output interfaces directly with the ORDELA Model 8208 AMP/HV Spectroscopy Grade Amplifier. Ready - Rear panel BNC connector; provides contact closure to ground when back fill pressure set point is reached. This output may be user-interfaced with multichannel analyzer to start data acquisition.
AC POWER:	115 V/60 Hz - 2.0 A
DIMENSIONS:	48.3 cm wide, 12.7 cm high, 30.5 cm long
SHIPPING WEIGHT:	12 kg

WARRANTY

ORDELA, Inc. warrants its products to be free from defects in materials and workmanship for 12 months after shipment. No other warranty is included. Specifically, no warranty of merchantability or fitness for a particular purpose is implied. ORDELA's liability under this warranty is limited to repairing or replacing the product at ORDELA's option. This warranty is void if the product is operated improperly, disassembled, or modified other than in the ORDELA laboratory.