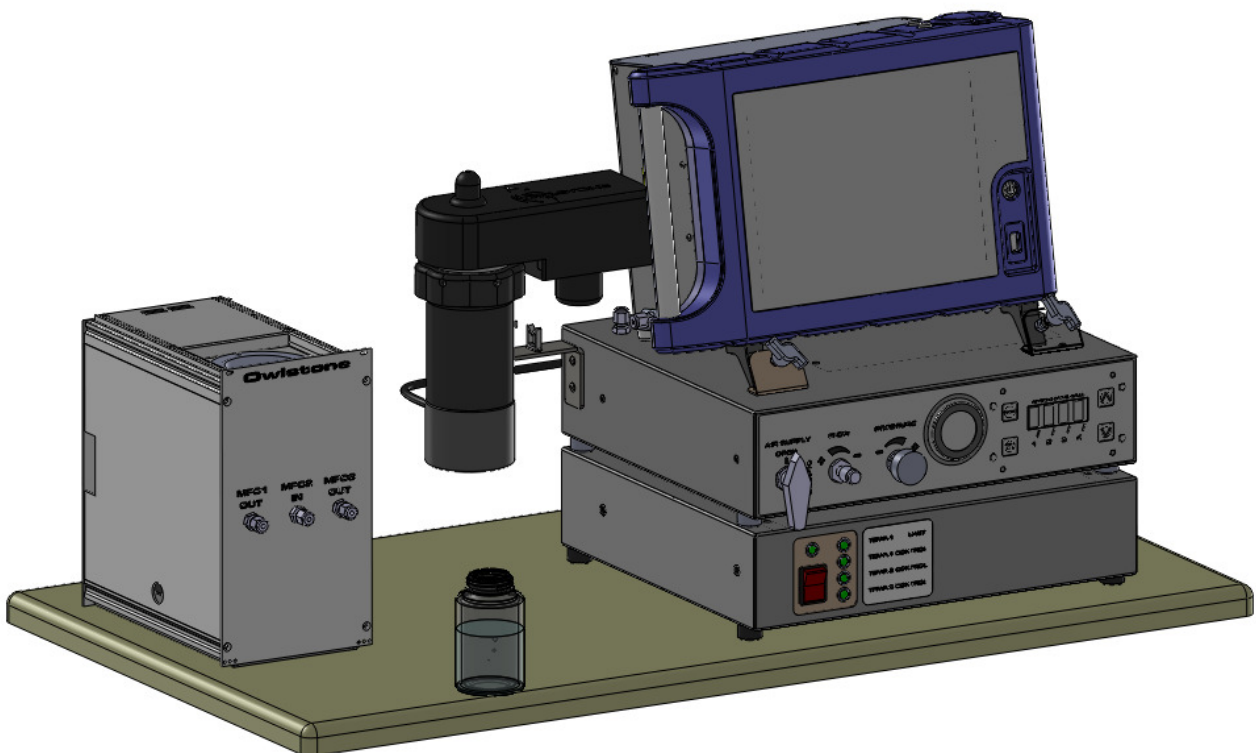


Owlstone 'ATLAS™ Sampling Module' (At-line) and Split Flow Box Safety Notices





Owlstone ATLAS™ Sampling Module' (At-line) and Split Flow Box Safety Notices

Issue/Version	Date	Author	Details
OW-003390-TM-1D	19/02/2013	Andrew Pauza	"At-line" renamed ATLAS, naming consistency improved, other typos, format and readability improvements, remove some obsolete warnings.
OW-003390-TM-002	21/02/2013	Andrew Pauza	Typo changes before issue 002.
90-0283-001	21/02/2013	Graham Newell	Issued into change control

About this Document

This document contains details of conformance of your Owlstone products to regulatory standards, safety information, and general product information. It does not give details for installation or usage. For this information, you must refer to the Owlstone support website:

owlstonenanotech.com

and

<http://support.owlstonenanotech.com/forums> .



This symbol is used to highlight a section explaining particularly important safety considerations

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Notices

Copyright

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Notice of Proper Use of Owlstone Ltd Instruments

The supplied system is in compliance with international regulations. If this system is used in a manner not specified by Owlstone Ltd, the protection provided by the system could be impaired

Contacting Owlstone

Visit the Owlstone® website (www.owlstonenanotech.com) for up to date contact details and service support:

For general inquires please email info@owlstonenanotech.com

UK Office:

Owlstone Ltd
127 Cambridge Science Park
Milton Road
Cambridge
CB4 0GD
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US Office:

Owlstone Inc.
761 Main Avenue
Norwalk,
CT 06851
Tel: +1 203-908-4848
Fax: +1 203-908-4849

Service and Maintenance

This equipment contains no user serviceable parts. Disassembly by users is NOT permitted. If your Lonestar® analyser or ATLAS™ requires maintenance or service please contact your Owlstone® representative and where necessary details of the return and repair procedure will be provided.

Owlstone Support

The ATLAS™ User Manual, as well as other information and resources for Owlstone customers, are available at our support website:

<http://owlstone.zendesk.com/home>

For help with any further questions or problems, please contact Owlstone directly on our support address:

support@owlstone.zendesk.com

Warranty

Owlstone Ltd warrants that equipment supplied will perform to the advertised specifications for a period of 12 months. Should any material failure of the product occur within 12 calendar months of delivery Owlstone Ltd will repair or replace the equipment free of charge given our satisfaction that sub-standard performance is genuinely the result of defective material or workmanship and not caused by fair wear and tear.

If required, please contact Owlstone Ltd for further detail regarding exact terms of the warranty.

Returns

Chemical Safety

Owlstone takes chemical safety seriously. Customers are **NOT** permitted to return hardware to Owlstone without prior authorisation. Please consult your Owlstone representative regarding the returns procedure.

Before equipment can be returned customers are required to fill out a Decontamination Certificate and submit to Owlstone for review. After H&S review Owlstone will issue a returns number (RMA#).

The Decontamination Certificate, p/n 90-0027, is provided in your document pack (supplied with the Lonestar® analyser) and can also be downloaded from our support website.

Under no circumstances should equipment be returned to Owlstone without an RMA#.

Packaging

Customers are encouraged to retain the original equipment packaging in case a future need arises for equipment return. Owlstone cannot take responsibility for transit damage to poorly packed equipment.

For further advice regarding correct packaging of Owlstone equipment please contact Owlstone.

Recycling and Disposal



This Product has been designed and manufactured with high quality materials and components, which can be recycled and reused.

This product is required to comply with the European Union's Waste Electrical & Electronic Equipment (WEEE) Directive 2002/96/EC so should not be disposed of in normal waste; Dispose of as electric waste or consult Owlstone Ltd for details of our recycling program for this product.

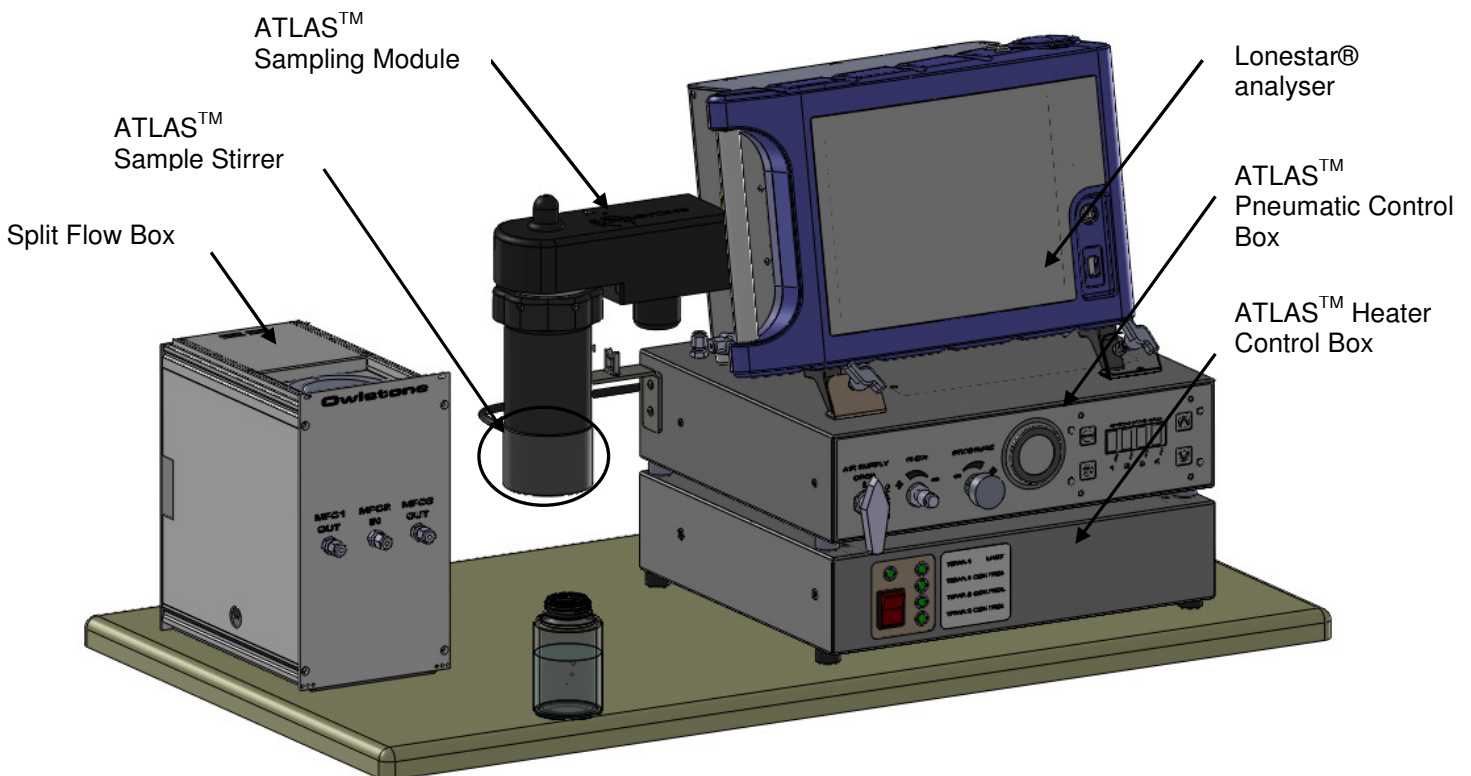
For users outside the European Union consult local authorities for correct disposal or contact Owlstone Ltd.

Warning labels



This warning label indicates parts of the product that will become hot during use. Please take care.

Description of ATLAS and Split Flow Box Components



CE Declaration of Conformity (DoC)

Owlstone Ltd performs complete testing and evaluation of its products to ensure full compliance with applicable domestic and international regulations. When the system is delivered to you, it meets all relevant electromagnetic compatibility (EMC) and safety standards as described in the declaration below.

Owlstone Ltd declares under its responsibility that the electronic product ATLAS™ Sampling Module is in conformity with the following standards:

EMC Directive 2004/108/EC

The ATLAS™ Sampling Module system complies with the following standards:

- CR47: 2006 Class A Code of Federal Regulations: pt 15 Subpart B – Radio Frequency Devices – unintentional radiators
- EN61326-1:2006 Electrical equipment for measurement, control and laboratory use – EMC requirements, Group 1, Class B equipment (emission section only)
- EN61326-1:2006 Electrical equipment for measurement, control and laboratory use – EMC requirements, Industrial Location Immunity (immunity section only)
- EN61000-3-2:200 Electromagnetic compatibility (EMC) – part 3-2: Limits – Limits for harmonic current emissions (equipment input current up to and including 16A per phase)
- EN61000-3-3:1995 (+A1/A2) Electromagnetic compatibility (EMC) – Part 3-2: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low voltage supply systems for equipment with rated current $\leq 16A$ per phase and not subject to conditional connection

Low Voltage Safety Compliance

- This device complies with Low Voltage Directive 2006/95/EC.

Changes that you make to your system may void compliance with one or more of these EMC and safety standards. Changes to your system include replacing a part or adding components, options, or peripherals not specifically authorized and qualified by Owlstone Ltd. To ensure continued compliance with EMC and safety standards, replacement parts and additional components, options, and peripherals must be ordered from Owlstone Ltd or one of its authorized representatives.

FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his or her own expense.

Safety Notice



Caution: Read these operating instructions fully before use and pay particular attention to sections containing this symbol

Always observe the following safety precautions:

- Only connect to an earthed supply socket. THE MAINS ADAPTOR IS CLASS 1 CONSTRUCTION AND MUST BE EARTHED (GROUNDED)!
- Ensure the mains outlet is easily reached to disconnect the unit
- Use only the supplied mains adaptor and leads supplied
- The equipment is heavy; use the handle provided to lift and carry the unit
- Always disconnect the equipment from the mains supply before moving
- This equipment is for use in moderate climates only. NEVER use the equipment in damp or wet conditions
- Avoid excessive heat, humidity, dust & vibration
- Do not use where the equipment may be subjected to dripping or splashing liquids

For the **Sample Stirrer Module**:

- Do not switch on until you have checked that the Voltage Selector switch is set to your local mains voltage and that the correct fuse is being used.
- Do not change the fuse or remove any covers with the mains inlet lead connected.
- Do not plug or unplug any stirring heads while the ATLAS™ Pneumatic Control Box is switched on.
- Do not place liquid containing bottles on the ATLAS Pneumatic Control Box. A spillage of liquid into the mains inlet connector could cause an electrical shock hazard. If this occurs, switch off the mains supply and unplug the lead from the supply.

Harmful substances

The ATLAS™ SAMPLING MODULE system can be used with a wide range of samples, some of which could be toxic or harmful. On heating these materials flammable or toxic gases may be released.



The ATLAS™ Sampling Module system is not a fully sealed unit, therefore for this reason **it is essential that the user conduct a risk assessment** for the substances to be used in the ATLAS Sampling Module and establish safety protocols to cope with the release of such materials under the normal operation of the unit.

These protocols must include suitable installation (e.g. in a fume cupboard, provision of extraction, etc.) and operational procedures to protect the operator.



Materials with auto-ignition point of less than 183 °C **must not** be used in the ATLAS™ Sampling Module.

Check chemical compatibility: Materials in the flow path include PTFE, stainless steel, aluminium, silicon, graphite, FR-4 circuit boards and Viton®. Ensure test atmospheres are neither corrosive nor reactive with materials in the flow path. If in doubt please contact an Owlstone® representative using the contact details provided.

Installation and Location



The three components of ATLAS together weigh ~ 12.2 kg unpackaged. Please take care in handling to avoid injury.

Before using the system, ensure that all power cables are intact with no damaged insulation or frays.

Ensure that the Lonestar® analyser and the ATLAS™ SAMPLING MODULE are placed on a solid, level surface, which is able to support their weight

Only use the Owlstone® supplied power supply

Ensure cabling is routed behind the system, at bench level, posing no risk of tripping. Ensure all cables are detached from the Lonestar® analyser and ATLAS™ instruments before attempting to move the units

The Lonestar® analyser gets warm during operation. Handle with care and ensure there is adequate ventilation around the system

Do not place in space that is poorly ventilated or confined. Allow at least 50cm clearance from walls and free flow of air around the system

Do not place near flammable materials

System Contents

The ATLAS kit (00-0036) is shipped with the following electrical components:

01-0180	1	ATLAS™ Sampling Module Assembly
01-0136	1	ATLAS™ Heater Control Box
01-0193	1	ATLAS™ Pneumatic Control Box
00-0053	1	ATLAS™ Sample Stirrer Module (optional)
00-0041	1	Split Flow Box (optional)
00-0050	1	ATLAS™ Installation Kit

About Owlstone

Owlstone develops and commercializes innovative new technologies to address the critical need for compact, dependable and cost-effective chemical and biological detection solutions for a wide range of markets.

Owlstone was formed through the recognition of the opportunities created by the application of micro- and nano- technology to develop improved sensing solutions.

Owlstone is focused on the innovation of detection technologies to address unmet needs, developing solutions that are flexible enough to target a range of markets with the potential for growth by enabling new application opportunities.

From homeland security to home safety, Owlstone is working with leading manufacturers and integrators across a range of markets to develop products incorporating our microchip chemical sensing solution.

Owlstone is headquartered in the United States and has laboratory facilities in the United Kingdom. Owlstone Ltd was founded in 2003 with a seed investment of two million dollars from Advance Nanotech, Inc., a New York based company specializing in the investment in and commercialization of nanotechnologies.