GeoPyc® 1365

Envelope Density Analyzer

micromeritics®

This Operator Training Checklist was reviewed and approved by:

Quality Control	Product Management
Global Service	Technical Director

Operator Training Checklist

136-42875-03
Apr 2023
(Rev B)

micromeritics®

CORPORATE PROFILE

Micromeritics Instrument Corporation is the world's leading supplier of high-performance systems to characterize particles, powders and porous materials with a focus on physical properties, chemical activity, and flow properties. Our technology portfolio includes: pycnometry, adsorption, dynamic chemisorption, particle size, intrusion porosimetry, powder rheology, and activity testing of catalysts. The company has R&D and manufacturing sites in the USA, UK, and Spain, and direct sales and service operations throughout the Americas, Europe, and Asia. Micromeritics systems are the instruments-of-choice in more than 10,000 laboratories of the world's most innovative companies and prestigious government and academic institutions. Our world-class scientists and responsive support teams enable customer success by applying Micromeritics technology to the most demanding applications. For more information, please visit www.Micromeritics.com.

DOCUMENT REVISION HISTORY

REV	ECN #	Description of Change	Checked By	Date
-	160002	Formal Release	M. Austin	12/12/2016
A	170084	Added T.A.P. support	M. Austin	03/29/2017
B	220280	Revised per portfolio review		

CONTACT US

Micromeritics Instrument Corporation
4356 Communications Drive
Norcross, GA / USA / 30093-2901
Phone: 1-770-662-3636
Fax: 1-770-662-3696
www.Micromeritics.com

Instrument Service or Repair
Phone: 1-770-662-3666
International: Contact your local distributor or call 1-770-662-3666
Service.Helpdesk@Micromeritics.com

Micromeritics Application Support
Support@Micromeritics.com

1. OVERVIEW

All references to GeoPyc or GeoPyc 1365 in this document encompass the GeoPyc 1365 and GeoPyc 1365 T.A.P. unless otherwise noted.

This document contains a checklist to be used for training of GeoPyc 1365 system operators. Place a check mark next to the items that were shown and discussed.

2. ORIENTATION

_____ 1. General safety
_____ 2. Operator Manual organization and conventions
_____ 3. Equipment description
_____ 4. Discussion of the T.A.P. option
_____ 5. Power up and power down
_____ 6. Standby mode
_____ 7. Instrument and cable connections
_____ 8. Front and rear panel components
_____ 9. Sample chamber
_____ 10. Menu structure
_____ 11. Software usage topics
_____ 12. Trainee allowed time to become familiar with software application

3. SOP

_____ 1. SOP defined and discussed
_____ 2. Review Records created after analysis
_____ 3. Review Reports after analysis

4. Dry Flo Medium

_____ 1. Handling Dry Flo discussion
_____ 2. Amount of Dry Flo to use
_____ 3. Load chamber with Dry Flo demonstration and discussion

5. Analysis Chamber and Plunger

_____ 1. Components
_____ 2. Usage
_____ 3. Maintenance and assembly
_____ 4. Consolidation force

6. Sample Run

_____ 1. Run types
_____ 2. Zero depth
_____ 3. Volume calibration
_____ 4. Sample run
_____ 5. Starting and viewing analyses
_____ 6. Blank data storage
_____ 7. Operation verification

7. Analysis Reports

_____ 1. Reports in *Records* view
_____ 2. Printed reports
_____ 3. Importing and exporting reports

8. Troubleshooting and Maintenance

_____ 1. Troubleshooting

_____ 2. Error messages (Refer to Micromeritics Website,)

_____ 3. Preventive maintenance procedures (Refer to Instrument Operators Manual.)

_____ 4. Clean the equipment

_____ 5. Recover from a power failure

_____ 6. Diagnostics

9. Returned Goods and Parts Ordering

_____ 1. Returned goods policy

_____ 2. Parts and accessories

10. Warranty Statement

_____ 1. Warranty policy

11. QUESTIONS

_____ All questions on operation resolved? (Enter **Yes** or **No**.)

If **No**, use the available space to document the question, then forward to the appropriate personnel at Micromeritics for resolution.

12. VERIFICATION

_____ All items on the Operator Training Checklist completed? (Enter **Yes** or **No**)

Name of trainer: _____

Date of training: _____

Company address: _____

_____

_____

_____

Analyzer name: _____

Analyzer serial number: _____

The following section is to be completed by the primary operator trained during this session. Please complete to acknowledge that installation training has been carried out to your satisfaction.

Operator verifying completion of training: _____

Date signed: _____

Operator's title: _____

Operator's phone number: _____

micromeritics®

UK DECLARATION OF CONFORMITY

This declaration of conformity is issued under the sole responsibility of the manufacturer:

Micromeritics Instrument Corporation
4356 Communications Drive
Norcross, GA 30093, USA

Hereby declares that the product:

GeoPyc 1365 Envelope and Density Analyzer

is in conformity with the following UK legislation:
Electrical Equipment (Safety) Regulations 2016
Electromagnetic Compatibility Regulations 2016
Restriction of the Use of Certain Hazardous Substances in E&E Equipment Regulations 2012

and that the equipment is in conformity with the following designated and other appropriate standards;

Electrical Equipment (Safety) Regulations 2016
IEC 61010-1:2010/AMD1:2016 - *Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 1: General requirements.*
IEC 61010-2-081:2019 – *Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes.*

Electromagnetic Compatibility Regulations 2016
IEC 61326-1:2020 - *Electrical equipment for measurement, control and laboratory use — EMC requirements — Part 1: General requirements*
IEC 61000-3-2:2019 - *Part 3-2: Limits — Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)*
IEC 61000-3-3:2013 - *Part 3-3: Limits — Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <= 16 A per phase and not subject to conditional connection*

Restriction of the Use of Certain Hazardous Substances in E&E Equipment Regulations 2012
EN 63000:2018 - *Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances*

Name: John McCaffrey, Ph.D.

Title: Vice President, R & D

Signature:

Date of issue: 03/20/2023

Location: Norcross, GA USA

micromeritics®

EU DECLARATION OF CONFORMITY

This declaration of conformity is issued under the sole responsibility of the manufacturer:

Micromeritics Instrument Corporation
4356 Communications Drive
Norcross, GA 30093, USA

Hereby declares that the product:

GeoPyc 1365 Envelope and Density Analyzer

is in conformity with the following **EU harmonization legislation**:

2014/35/EU - LVD Directive
2014/30/EU - EMC Directive
2011/65/EU - RoHS Directive

and that the equipment is in conformity with the following harmonized and other appropriate standards;

2014/35/EU (LVD)
IEC 61010-1:2010/AMD:2016 - *Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 1: General requirements.*
IEC 61010-2-081:2019 – *Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes.*

2014/30/EU (EMC)
IEC 61326-1:2020 Ed.3 - *Electrical equipment for measurement, control and laboratory use — EMC requirements — Part 1: General requirements*
IEC 61000-3-2:2018 /AMD1:2020 - *Part 3-2: Limits — Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)*
IEC 61000-3-3:2013 - *Part 3-3: Limits — Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <= 16 A per phase and not subject to conditional connection*

2011/65/EU (RoHS)
EN 63000:2018 - *Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances*

Name: John McCaffrey, Ph.D.

Title: Vice President, R & D

Signature:

Date of issue: 03/20/2023

Location: Norcross, GA USA