GeoPyc® 1365

micromeritics®

Quick Start Guide

136-42809-00
Mar 2026
(Rev A)

CONTACT US

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

Instrument Service or Repair
Phone: 1-770-662-3636
International: Contact your local distributor or call 1-770-662-3636
Service.Helpdesk@MalvernPanalytical.com

Micromeritics Application Support
Micromeritics.Support@MalvernPanalytical.com

ABOUT THIS GUIDE

This quick start guide will help you start an analysis with supplied reference material and a pre-defined method. See the Operator's Manual for general instructions for operating the instrument.

The following symbols or icons indicate safety precautions and/or supplemental information and may appear in this manual:

NOTE — Notes contain important information applicable to the topic.

CAUTION — Cautions contain information to help prevent actions that may damage the instrument or components.

WARNING — Warnings contain information to help prevent actions that may cause personal injury.

GENERAL SAFETY

Do not service or modify this instrument without authorization from Micromeritics Service Personnel. It does not include any user-serviceable parts.

Any piece of laboratory equipment can become dangerous to personnel when improperly operated or poorly maintained. Individuals operating and maintaining Micromeritics instruments should be familiar with its operation and should be thoroughly trained and instructed on safety.

- Read the operator manual for any special operational instructions for the instrument.
- Know how the instrument functions and understand the operating processes.

- Wear the appropriate personal protective equipment when operating this instrument — such as eye protection, lab coat, protective gloves, etc.
- When lifting or relocating the instrument, use appropriate lifting and transporting devices designed for heavy equipment. Ensure that enough personnel are available to assist with the movement of the instrument.
- Always pay attention to the safety instructions provided on each label affixed to the instrument and do not alter or remove the labels. When inspecting the instrument, ensure that the safety labels have not become worn or damaged.
- Proper maintenance is critical to personnel safety and smooth instrument operation and performance. Instruments require regular maintenance to help promote safety, provide an optimum end test result, and to prevent costly down time. Failure to practice proper maintenance procedures can lead to unsafe conditions and shorten the life of the instrument.
- Improper handling, disposal, or transportation of potentially hazardous materials can result in serious injury or damage to the instrument. Always consult the SDS when working with hazardous substances. Safe operation and handling of the instrument, supplies, and accessories are the responsibility of the operator.

INTENDED USE

The instrument is intended to be operated by trained personnel familiar with the proper operation of the equipment recommended by the manufacturer and as well as relevant hazards involved and prevention methods. Other than what is described in this manual, all use is seen as unintended use and can cause a safety hazard.

The instrument is intended to be used as per applicable local and national regulations.

SYMBOLS THAT MAY APPEAR ON THE INSTRUMENT

The following symbols or icons indicate safety precautions and/or supplemental information and may appear on your instrument:

Use extreme caution when working on the instrument where one of these symbols may be displayed. These symbols indicate the part may be hot and cause serious burns.

Use the cotton gloves provided in the accessory kit when handling heated surfaces. These cotton gloves are not intended to protect hands when heated surfaces are above 60 °C.

When working on an instrument where this symbol is displayed, refer to the corresponding Operator Manual for additional information.

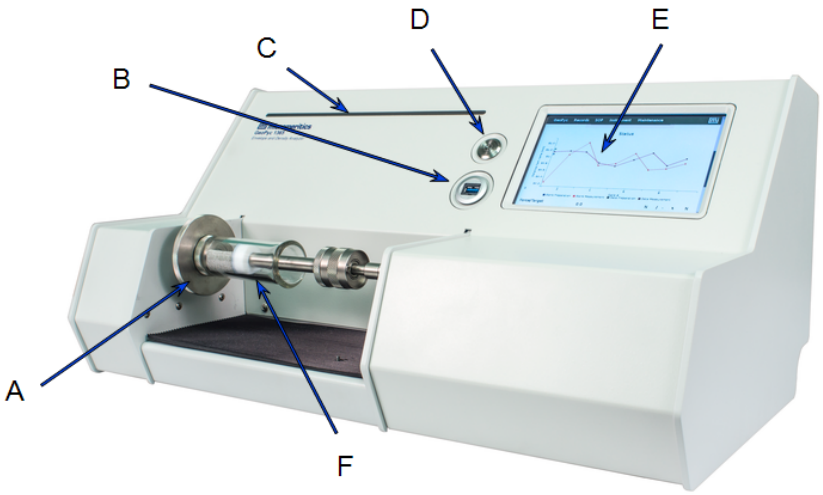
When this symbol is displayed, toxic or flammable gases require proper venting of exhaust.

This symbol can also indicate the instrument uses mercury which is an extremely toxic substance. Read the Safety Data Sheet (SDS) and be aware of the hazards of mercury and know what to do in the event of a spill or an exposure incident.

This page
intentionally
left blank

1 About the GeoPyc 1365

Front Panel

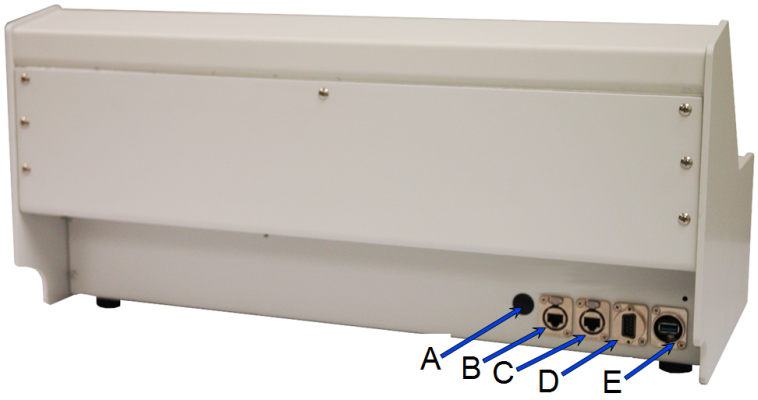


A. Sample chamber
B. USB port
C. Status bar (LED)
D. Standby button
E. Touchscreen
F. Plunger

Front Panel Components

Component	Description
Status bar (LED)	Indicates the analyzer status.
Plunger	Compresses the sample and Dry Flo.
Sample chamber	Contains the sample and Dry Flo.
Standby button	Press to turn the screen on or off.
Touchscreen	Use to enter information, monitor analyses, and review results.
USB Port	The USB ports on the front and back of the instrument can be used inter-changeably, however, to prevent wires from interfering with the operation of the instrument, use the USB port on the back for devices with cords. The USB ports can be used to connect a printer or keyboard, export and import data, and update software.

REAR PANEL



A. Power connector
B. Ethernet port (not currently used)
C. Ethernet port (for computer or network connection)
D. RS-232 port
E. USB port

Rear Panel Components

Component	Description
Ethernet ports (2)	The port labeled Network (labeled B in the image) is used to connect the analyzer to a network or directly to a computer. The other port (labeled C in the image) is not currently used.
Power	For connecting the analyzer to the power supply adapter with a barrel plug.
RS-232	A mass balance can be connected to the analyzer through the 9 pin RS-232 port. A suitable balance and cable are available through Micromeritics. Data is transmitted through the USB port.
USB ports	The USB ports on the front and back of the instrument can be used inter-changeably, however, to prevent wires from interfering with the operation of the instrument, use the USB port on the back for devices with cords. The USB ports can be used to connect a printer or keyboard, export and import data, and update software.

2 SAMPLE RUN

Use to collect data on the GeoPyc.

See the operator's manual for more information. In particular, note that a zero depth measurement is needed to report the percentage of the chamber volume occupied by the sample. A volume calibration is recommended for greatest accuracy.

BEFORE LOADING THE SAMPLE

1. Choose appropriate chamber.
2. Measure Zero Depth by inserting the extender and choosing the zero depth SOP in the GeoPyc that corresponds with the chamber size.

LOAD THE CHAMBER

1. Select a solid sample that fits in the chamber and weigh it.
2. Fill the chamber with Dry Flo such that when the sample is later inserted the sample makes up at least 25% of the total volume.
3. Insert the plunger into the chamber.
4. Screw the chamber on the left mandrel.
5. Withdraw the plunger and screw it on the right mandrel.

CREATE THE SOP

1. On the touchscreen, tap **SOP**.
2. Tap **+**.
3. Scroll to the bottom and select the size of the chamber being used as well as entering any other relevant information.
4. Tap **Update**.

RUN THE BLANK

1. On the touchscreen, tap **GeoPyc**.
2. From the SOP drop-down list, select the appropriate SOP.
3. Enter the mass of the sample.
4. Tap **START**. When the blank cycles complete, the analyzer partially withdraws the plunger.

Load the Sample

1. Unscrew the right mandrel and push the plunger in.
2. Unscrew the left mandrel and remove the plunger/chamber assembly from the analyzer.
3. Carefully remove the plunger and set it aside with the seal end facing up.
4. Gently slide the sample into the chamber, ensuring that it is submerged within the Dry Flo.

Run the Analysis

1. Replace the chamber/plunger on the analyzer.
2. Tap **START** to begin the analysis.
3. Monitor results on the touchscreen.