



Model CM2 MicroLyzer

Front Panel

FRONT PANEL

Light-Emitting Diode (LED):
 Inject Sample
 Analysis is Complete

Front PUMP switch should be turned down when your machine is not in use.



Inject samples into this FLUSH port when the SAMPLE valve stem is out and the LED under the meter is GREEN.

Adjust ZERO control only when LED is GREEN.

Hold down the OFFSET CHECK button ONLY when adjusting the Hydrogen (H₂) meter with the screwdriver.

Adjust CALIBRATION control only when LED is RED.

Back Panel

NO-PRESSURE DRYING TUBE, (Please see maintenance information below.)

AIR INLET PORT with luer lock fitting. This lock must be tight.

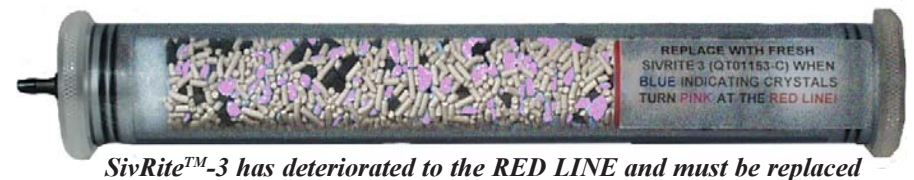
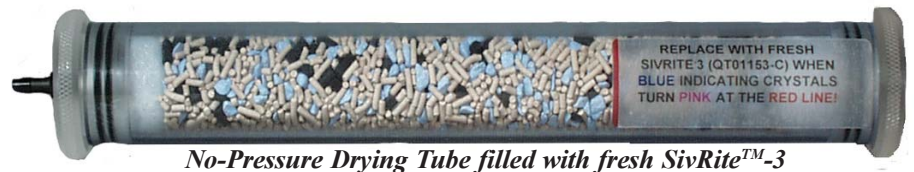


Please refer to your Operator's Manual for important information regarding the LINEARIZER.

POWER ENTRY MODULE and POWER SWITCH

IMPORTANT MAINTENANCE INFORMATION

The No-Pressure Drying Tube, located on the Back Panel of the MicroLyzer™ CM2, is filled with SivRite™-3 (QT01153-C) desiccant and must be replaced periodically. The blue granules will turn to purple/pink as the SivRite deteriorates. When the blue granules up to the red indicating line have changed to purple/pink, the contents of the tube must be replaced.



Model CM2 MicroLyzer Abbreviated Operating Instructions

Preparing for Analysis

- ◆When your machine is not in use, the **PUMP SWITCH** located on the front of the instrument should be turned **DOWN** in the **STANDBY** position.
- ◆The **POWER SWITCH** located on the back of the instrument should be **ON** at all times.

Warming Up...

- ◆Flip the **FRONT PUMP SWITCH ON**, preferably the night before tests are scheduled, but at least 40-60 minutes prior to use.
- ◆Have the **SAMPLE** valve stem in the **OUT** position. The **LED** under the meter will turn **GREEN**.

Set Operating Conditions...

- ◆**DEPRESS** the **OFFSET CHECK** button located on the lower center portion of the **FRONT** panel.
- ◆The **METER** should read **075±1**. If it is not in this range, adjust the **OFFSET ADJUSTMENT SCREW** with the small screw driver until the display reads **075**.
- ◆**RELEASE** the **OFFSET CHECK** button and set the meter to **000** with the **ZERO** control.

Calibrating Your Machine

- ◆Attach a 1-way **STOPCOCK** to a **SYRINGE** larger than 20ml.



- ◆Withdraw at least 20 ml of gas from the **QUINGAS-1 (Normal QT07011-G)** cylinder, and close the stopcock **BEFORE** removing the syringe from the cylinder.
- ◆Transfer the syringe with stopcock to the **FLUSH** port and inject the sample into the instrument.
- ◆Push the **SAMPLE** valve stem in. Remove the syringe assembly. The **FRONT PANEL LED** will turn to **RED**, and the analysis will proceed.
- ◆The **METER** will display a value within 1 minute. When the meter reading is stable, use the **CAL** adjustment to set the meter to read the concentration listed on the **QUINGAS-1** cylinder.
- ◆Pull the **SAMPLE** valve stem out. The **FRONT PANEL LED** will change to **GREEN**. The meter should return to **000** within 3 minutes. If it does not, return to the "Set Operating Conditions..." section to make sure that the **OFFSET LEVEL** is adjusted appropriately.
- ◆Repeat the Calibration Procedure. The meter should show the previously calibrated value within $\pm 2-3$ ppm. If it does not, adjust it accordingly and recheck by repeating the Calibration Procedure.

Analyzing Patient Samples

- ◆Use one of the several collection devices available to collect at least 20 ml of aveolar air from the patient.

- ◆With **FRONT PANEL LED GREEN**, align the **SIVRITE-10 CARTRIDGE** with the **FLUSH** port and inject the patient sample into the machine **THROUGH THE SIVRITE-10 CARTRIDGE**.



Siv-10 Cartridge (QT00430-J)

- ◆Push the **SAMPLE** valve stem in. Remove the syringe assembly. The **FRONT PANEL LED** will turn to **RED**.
- ◆When the **METER** has stabilized record the H_2 concentration.
NOTE: If the **RED LED** flashes when the peak value is reached, the instrument is not able to display accurately the high H_2 concentration. Either dilute the sample with room air, or return to the "Set Operating Conditions..." section, lower the **OFFSET LEVEL** by 5, recalibrate the instrument, and reanalyze the patient sample.
- ◆Pull the **SAMPLE** valve stem out. The **FRONT PANEL LED** will change to **GREEN**.
- ◆When the meter reading returns to "000", the instrument is ready for another sample or a calibration check.
- ◆Check the calibration hourly, (or more frequently if results are erratic) when your machine is being used to analyze samples.



NOTE: If the instrument can not be set to the proper readings, call QuinTron's Service Department Toll Free: 1-800-542-4448, or contact a qualified Biomedical Engineer in your institution to check and adjust the instrument.