Gilibrator® 3 Primary Calibrator

Primary Dry Cell Calibrator • Convenient and Accurate With Stable Back Pressure

The New Standard in Calibration Devices

- Fast and easy to use dry calibrator
- StablFlow™ provides constant low back pressure to device being calibrated
- Patent pending pulse-free valve technology maintains calibration integrity
- Touch screen color display that is visible in direct light
- Multiple flow cells with a common base adds convenience and saves cost
- Internal record storage provides data continuity and reporting
- Gilian® Connect PC Compatible (Q4 2018) allows for data retrieval, record keeping, and statistical analysis of data
- SmartCal™ capable with GilAir Plus® pumps

Gilibrator® 3
with **STABLFLOW**™

Calibrations in the Field, the Lab, or Wherever You Go

The Gilibrator 3 delivers maximum convenience, accuracy, and data integrity. The calibrator is designed for mobility with an advaced rechargeable Lithium Iron Phosphate (LiFePO4) battery. It has a modular design for quick changes of liquid-free, dry flow cells, addressing calibrations from 5 cc/min to 30 LPM. ISO 17025 calibration certificates available from Sensidyne.

Modularity

Quick disconnect fittings allow for easy flow cell exchange:
- Low: 5 to 450 cc/min
- Standard: 50 to 5,000 cc/min
- High: 1LPM to 30LPM

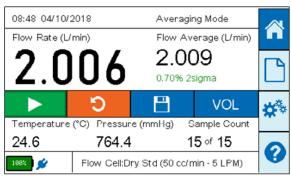High, standard, & low flow cell modules are easily interchanged

Configure to Your Requirements

The Gilibrator 3 can be configured to meet the user's calibration needs. The user may select between Continuous or Averaging modes. In Averaging mode, the user may select a sample set between 3 and 20 samples to be averaged. In addition, the user can define statistical parameters for 95% confidence level of averaged samples. Within the settings screen, the user is able to define engineering units of measurement, date, time, temperature, and choose from a selection of languages in the devices library.

Live reading during air sampling calibration

Sensidyne, LP | 1000 112th Circle North, Suite 100 | St. Petersburg, Florida 33716
(N. America) 800-451-9444 / (Intl) +1 727-530-3602 | E-mail: info@Sensidyne.com | Web: www.Sensidyne.com

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Design Features

The Gilibrator 3 display window and internal LED lighting allows for visual verification of a dry cell. The Patent Pending design equalizes pressure on the pump regardless of puck travel direction. This feature allows for minimal disturbance of the airflow generated by the instrument under calibration. Since the Gilibrator 3 does not vary the back pressure presented to the device under calibration, the calibration process is faster and more accurate. Unlike competitor dry cell calibrators, the Gilibrator 3 uses a fixed sensing array, which eliminates the potential for misalignment of photo sensors, and lowers operational costs.

Screens for Sampling, Display, and Maintenance

Accurate Air Flow Calibration Capabilities

The Gilibrator 3 has live, instantaneous flow measurement, accurate within 1% of reading. The constant, low interference back pressure throughout the calibration sets allow for consistent airflow accuracy.

Easy Input of Data and Access to Critical Information

The Gilibrator 3 offers the best user interface capabilities, with full touch screen keyboard for completing data input, and user defined fields for maintaining sample integrity. The Gilibrator 3 displays the last calibration and serial numbers for both the Base

and connected Flow Cell, and displays a reminder of next calibration due date. In addition, the user can track use of the calibrator through displayed cycle counts for both the base and for the flow cell.

Digital Calibration Records Improve Reliability of Reports

The Gilibrator 3 can generate printable calibration reports, the need for pen or paper has been eliminated. The calibrator base can store 100 time-stamped calibration events in its on-board memory. This feature allows calibration data in sampling reports and historical records for statistical analysis to be retrieved from the on-board memory.

Digital Data Logging and Downloading

The Gilibrator 3 comes with an SD Card slot, which allows increased storage and alternate transfer of calibration data via exporting of bitmap and .csv files. Bitmap calibration reports display sample information, saved instrument settings, and individual sample results. Exporting of .csv files allows data archiving in Excel that can be used for input into larger data comparison sets.

Part Number	Descriptions – Gilibrator 3
910-1708-EU-R†	Low Flow Dry Cell Base Pack (No Case)
910-1709-EU-R†	Standard Flow Dry Cell Base Pack (No Case)
910-1710-EU-R†	High Flow Dry Cell Base Pack (No Case)
910-1702-EU-R*	Low Flow Dry Cell Kit (With Hard Shell Case Included)
910-1703-EU-R*	Standard Flow Dry Cell Kit (With Hard Shell Case Included)
910-1704-EU-R*	High Flow Dry Cell Kit (With Hard Shell Case Included)
910-1705-EU-R*	Low Flow and Standard Flow Dry Cell Kit (With Hard Shell Case Included)
910-1706-EU-R*	Standard Flow and High Flow Dry Cell Kit (With Hard Shell Case Included)
910-1707-EU-R*	Low Flow and High Flow Dry Cell Kit (With Hard Shell Case Included)
910-1701-EU-R*	Deluxe Kit, All Three Dry Cell Sizes (With Hard Shell Case Included)
811-1707-01-R	Base Only
811-1708-01-R	Low Flow Dry Cell (Flow Range 5 - 450 cc/min)
811-1709-01-R	Standard Flow Dry Cell (Flow Range 50 - 5,000 cc/min)
811-1710-01-R	High Flow Dry Cell (Flow Range 1 - 30 LPM)
615-1701-01-R	Hard Shell Case (Case Only)

†Base Packs are available with US, EU, UK, and No cords options for charging system. All Base Packs include control base, interchangeable dry cell, DC charger/AC power supply, and tubing. Carry case is NOT included.
*Kits are available with US, EU, and UK cords for charging system. All kits include control base, interchangeable dry cell, DC charger/AC power supply, and tubing, in hard shell carry case.

Specifications	
Flow Ranges	**Low** 5-450cc/min, **Standard** 50-5000cc/min, **High** 1-30LPM
Volumetric Accuracy	1% of reading†
Temp. & Pressure Sensor	YES, in flow stream
Time per Measurement	1-15 seconds
Sampling Mode	Instantaneous, Averaging
Averaging Function	Selectable; 3 to 20 Measurements
Gas Compatibility	non-corrosive, non-condensing
Flow Modes	Pressure or Suction
AC Adapter / Charger	12 VDC
Battery System	Lithium (LiFePO4)
Battery Run Time	3 hours max flow, 8 hours continuous use (min brightness),
Battery Charge Time	12 VDC Adaptor 3 hr, , USB 7 hrs (unit off)
Warranty	24 Months (1 Year Battery)
Operating Temperature	0-50° C (32-122° F)
Storage Temperature	0-70° C (32-158° F)
Operating Humidity	0-85% RH, non-condensing
Storage Humidity	0-100% RH, non-condensing
Display	Color Graphic LCD, HMI Touch Screen
Data Port	RS-232 (for Pump interface), USB (for data)
Transportable Storage	SD Card
Protective Hard Shell Case	Carrying case for 1 to 3 Cells
Dimensions (HxWxD)	6.6" x 9.2" x 3.2" (168 x 234 x 81mm)
Weight	Base: 2.8 lbs / 1,270 g, Low Flow Cell: 0.8 lbs / 363g, Std Flow Cell: 0.85 lbs / 385g, High Flow Cell 1 lb / 454g
Certifications	UL601010, CE, RoHS

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Industrial Health & Safety Instrumentation

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