

GilAir Plus

The World's Most Capable Air Sampling Pump Now with 3 New Technologies!

Innovation Delivered

The ultimate personal air sampling pump delivering enhanced performance, greater versatility, and superior design and comfort.

Motion Detection

Detect and measure up to 3 levels of activity (active, stationary, inactive) of each worker, ensuring sample integrity

Bluetooth Connectivity

- Remotely monitor an air sampling pump up to 5 meters away
- No disturbance of the worker
- Stay in unrestricted areas while workers are in restricted areas
- No need to suit up

CONNECT Mobile App

- Start, stop or pause the sample remotely
- Monitor and graph flow rate, sample run time, and volume remotely
- Perform real-time remote assessments:
 - Identify if cassette is overloading
 - Identify if filter media is detached
- Sample audits provide the following right on the smart phone/tablet:
 - Report of current conditions
 - Screen shot of current conditions
 - Time stamp
 - GPS coordinates (actual address)
 - Pump number
 - E-mailable report

Check the status of multiple pumps in the same area.

*List of tested iOS and Android Devices:

Type	OS Version	Tested Devices
iOS	8.0 to 10	iPhones 5, 5C, 5S, 6, 6+, 6S, 6S+, iPod Touch and iPad
Android	4.2 to 6.0	Samsung S3, S4, S5, Note 3, Moto E, Nexus and Samsung Tablets

This list will be updated as new smart phone/tablet models are released and assessed.

Please contact Sensidyne's Software Support Team at softwaresupport@sensidyne.com with questions regarding additional devices or support for this application.

Ease of Use

An intuitive menu, keypad interface and large, easy-to-read back-lit display makes adjusting pump settings quick and easy. Once the pump is set up, the keypad can be locked to prevent tampering. Convenient and innovative SmartCalSM feature provides automatic pump calibration.



The Widest Flow Range of Any Personal Air Sampling Pump

Personal Industrial Hygiene Air Sampling Pump The GilAir® Plus features wide dynamic flow and pressure ranges to address all personal air sampling methods with flow ranges between 20 and 5,000 cc/min. With patent pending QuadModeSM air sampling technology, the GilAir Plus can perform both high-flow constant pressure and constant flow (450-5,000 cc/min) and low-flow constant pressure and constant flow (20-499 cc/min) with a single pump without external adaptors. It's like getting two pumps in one.

Unmatched Versatility

Samples particulates, vapors, gases, and metal fumes
Works with all common sampling media
Multi-language capability: English, Spanish, French, Italian, Dutch, Portuguese and German
Outlet port for bag sampling

High Performance

GilAir Plus is a smart air sampling pump that provides ambient or standard temperature and pressure corrected display (STP model) and data-logging for up to 16 sampling events (STP and Datalog model). The pump has high back pressure capability of up to 40" H2O in high flow and up to 40" H2O in low flow. An automatic self check system ensures sample accuracy. In the event of a fault condition, the pump's selectable automatic fault recovery feature attempts to restart the pump up to 10 times every 3 minutes to determine if the fault condition has been cleared.

Ergonomic Design

One-third smaller than traditional personal air sampling pumps and weighing less than 21 oz. (595 g), the GilAir Plus provides superior operator comfort. An integrated belt clip securely attaches the pump in a horizontal position, allowing workers a full range of motion to perform a wide variety of tasks without interference or discomfort.

Communications

The GilAir Plus dock provides charging and communication functions for the STP and data-logging models. Once docked, the PC application allows users to review datalogs, generate sampling reports, manage sampling programs, and create pump set-up profiles that expedite deployment of large pump fleets. The SmartCalSM feature uses the dock as a communication link between appropriate calibration devices and the GilAir Plus. Smart-CalSM automates calibration and records pre and post sample calibrations in the pump's datalog.

Gilian CONNECT is our industry-leading PC application for managing air sampling data and Gilian Plus Series pumps.

Barometric Pressure Compensation

When sampling at altitudes of up to 8,000 feet above or 8,000 feet below sea level, GilAir Plus has the capability of automatically correcting the flow rate for altitude changes to maintain constant flow accuracy of +/- 5% over this barometric pressure range. This feature permits GilAir Plus calibration at ground level and sampling at high elevations or deep mines without loss of flow accuracy or the need to calculate and use manual correction factors. GilAir Plus is the only personal air sampling pump with this capability.

Download the Barometric Pressure Sampling Note

Performance Firmware

Current Version: 2.5.4 (6/20/17)

Flow Range

Constant flow 20 - 5,000 cc/min. without external adaptors
Constant pressure 1 - 5,000 cc/min without external adaptors

Flow Modes

Constant Flow or High and Low Flow Constant Pressure

Accuracy

Flow Display $\pm 5\%$ or 3 cc/min of set flow, whichever is larger

Constant Flow Control $\pm 5\%$ or 3 cc/min of set flow, whichever is larger

Constant Pressure Control $\pm 10\%$ of back-pressure

Back Pressure Capability

(8-hour runtime) 5000 cc/min. up to 12" H2O back pressure

4000 cc/min. up to 20" H2O back pressure
3000 cc/min. up to 30" H2O back pressure
2000 cc/min. up to 30" H2O back pressure
1000 cc/min. up to 35" H2O back pressure
450 - 1000 cc/min. up to 40" H2O back pressure
20 - 449 cc/min. up to 40" H2O back pressure

Run Time 8 hour minimum

Flow Fault If flow changes exceed 5% within back pressure specifications, fault notification appears. If fault exceeds 30 seconds, pump shuts down. Selectable automatic fault recovery allows the pump to attempt restart every 3 minutes for up to 10 times or to hold until manual intervention

Environmental Temperature Ranges

Operating 32°F to 113°F (0°C to 45°C)
Storage -4°F to 113°F (-20°C to 45°C)
Charging 41°F to 104°F (5°C to 40°C)

Humidity Ranges

Operating 5-95 %RH, non-condensing
Storage 5-98 %RH, non-condensing

GENERAL

Display Flow rate, sample time, and sample volume in actual conditions

Controls

Indicators Green and Red LED's
Dimensions 4.3 x 2.4 x 2.4 inches (10.9 x 6.1 x 6.1 centimeters)
Weight 20.5 ounce (581 grams)

Warranty 2 years from original shipment, 5 years for pump keypad, and 1 year on rechargeable NiMH battery pack

ELECTRICAL

Power Options Removable rechargeable nickel-metal hydride (NiMH) battery pack, optional alkaline battery pack, or DC power
Battery Level Indicator On-screen icon displays battery level
Interface Connectors All pump interface is carried out via the Dock or keypad
Dock Functions Battery charging, computer interface, and auto-calibration
Charging Time Under 3.5 hours

APPROVALS

EN 1232 Compliant Ingress Protection: IP54

Intrinsic Safety

US/Canada NRTL (FM) Class I, Div 1 Groups A, B, C, D, E, F, and G;
Class II, Div 1 Zone O; Class III, T4

ATEX/IECEX
II 1 G
Ex ia IIC T4

CE

Applicable Directives ATEX 94/9/EC
EMC 2004/108/EC (RFI) LVD 2006/95/EC
RoHS Compliant