



The **BUCK Allin & Allin Plus 5** series is a personal air sampler suitable for use in location where flammable gases, vapors, dust, fibers or flyings are present. It has steel fiber filled housing for RFI/EMI shielding, exclusive electronic circuit board for constant flow control, an LCD display with 2 lines of 16 characters, a single diaphragm pump mechanism, and a rechargeable NiMH battery pack.

The purpose of this pump is to draw air contaminants in through a sampling media such as 25 and 37mm filter cassettes, bubble impingers, long-duration color detector tubes; to gauge personnel exposure to gases, vapors, particulates, aerosols, etc.

No tools are required to operate this pump and a password protected keypad locking system provides uninterrupted operation. The main display allows quick selection to RUN (for sampling) or MENU (to reset pumps data). Other features include elapsed time, flow rate, and accumulated volume.

Allin Plus models include data logging, programmable feature which allows the pump for unattended Start/Stop operation. Temperature and Barometric Pressure compensation in STP mode. The PC link capability lets you download the sampling data into a PC with Windows XP/ Windows 7 operating system using the RS232 COM port and the Buck PC link cable. **

Features:

- UL 913 and CAN/CSA-C22.2 Intrinsically safe certified: Suitable for use in Class I, II, III, Div 1 Groups A-G, T3 Hazardous locations.
- Allin Plus models capable of Data logging and can be programmed for multiple Start/ Stop and Duration Sampling. **
- Temperature and Barometric Pressure Compensated flow available in the Allin Plus models only. **
- Runs 14 hours @ 2.0 LPM (37 mm 0.8µ filter)
- High back pressure compensation, up to 50" of w.c. @ 2LPM
- Accuracy: ± 5% of compensation range
- Flow compensation for filter plugging and battery voltage
- Dual flow range easily handles Impingers, cyclones, and tubes
- Auto-restart within one minute of a flow fault
- Includes single pack battery and run time could be extended with the use of optional triple pack.
- Battery pack rechargeable while attached or separately
- Compact, rugged, and quiet
- Stainless steel belt clip with built-in tripod connector
- Key pad lock system
- One year warranty

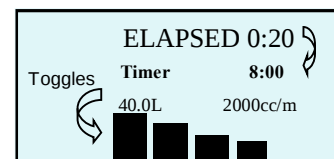


Flow Range 0.8 to 5 Lpm
Low Flows 5-799 cc/min with Low
Flow Holder

Main Display



Sampling Display



Rev. 5.11.2018



Performance Profile

Model: Allin & Allin Plus - 5

Flow Range: 0.8-5LPM (800-5000 cc/min)

50̂ 799 cc/min

With Universal Low Flow Holder

P.N. APB-109030

Compensation Range:

5000 cc/min up to 10̂water back pressure

4000 cc/min up to 20̂water back pressure

3000 cc/min up to 30̂water back pressure

2000 cc/min up to 50̂water back pressure

1000 cc/min up to 30̂water back pressure

800 cc/min up to 15̂water back pressure

Accuracy: ± 5% of Compensation Range

Run Time (hrs) at different backpressure and flow rate

(cc/min) Backpressure (inches of water)

Flow Rate 50̂ 10̂ 15̂ 20̂ 30̂ 40̂ 50̂

1000 18hr 14hr 12hr 10hr 7hr

2000 14hr 12hr 10hr 8hr 6hr 4hr 3hr

3000 11hr 9hr 8hr 7hr 4hr

4000 9hr 7hr 5hr 3hr

5000 6hr

Low Flow using Universal Low Flow Holder

5 to 799cc/min: 1- 8 hours depending on backpressure.

Data Storage Flow rate, elapsed clock time, accumulated

Allin Plus Only: volume, temperature, DP and any Flow Faults are logged in the memory for download to PC.

Display: Backlit LCD with 2 lines of 16 Characters

Normal Operation: Battery Level, Flow Rate, Elapsed

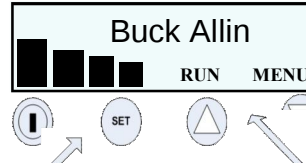
Time, Volume Collected, Timer, DP .

Flow Fault Displays: Flow Fault, or Filter Off

Operating Instructions

Buck Allin & Allin Plus -5

Battery Capacity. Each bar represents approximately 1/4 of power remaining.



ON and OFF key turns pump off when pressed for 4 seconds. Also acts as an escape key in sub displays and return to the Main display.

Press and Hold SET key and use the arrow key to change display values.

Up and Down arrow key serves as dynamic key to operate and display text directly above. Also serves to change display settings while SET key is pressed.

Specifications

Power Supply:

Single Pack, NiMH Batteries: 4.8V, 2.15 Ah

Triple Pack, NiMH Batteries: 4.8V, 6.45 Ah

Charger Type: Standard Wall Charger

Standard Charger Input Voltage: 120 VAC - 240 VAC

Battery	Battery Part no	Charge Time
Single Pack	109004	10 Hrs
Triple Pack	109012	24 Hrs

****Approvals:**UL913 and CAN/CSA-C22.2 Intrinsically safe certified. Suitable for use in Class I, II, III Div 1 Groups A-G, T3 Hazardous locations.

ATEX: Pending

Temperature:

Operating 32°F to 113°F (0°C to 45°C)

Storage 32°F to 113°F (0°C to 45°C)

Charging 50°F to 104°F (10°C to 40°C)

Case: Polycarbonate steel fiber filled, RFI/EMI-shielded

Size: 4.5̂H x 4̂W x 2̂D(11.4 cm H x 10.2 cm W x 5 cm D)

Weight: 19 oz (539g)

PRODUCT	DESCRIPTION
APB-905200*	Buck Allin™ -5 Single Pack Pump kit with 120V standard charger.
APB-905220*	Buck Allin™ -5 Single Pack Pump kit with 240V standard charger.
APB-905250**	Buck Allin™ -5 Five Pack Pump kit with 110V/240V standard charger.
APB-905300*	Buck Allin Plus™ -5 Single Pack Pump kit with 120V standard charger.
APB-905320*	Buck Allin Plus™ -5 Single Pack Pump kit with 240V standard charger.
APB-905340**	Buck Allin Plus™ -5 Five Pack Pump kit with 110V/240V standard charger.

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* Pump kit includes pump with a single pack NiMH battery, standard 120V or 240V AC battery charger, Luer hose adapter, shirt/hose clip, 3 feet of vinyl hose and operating manual. Universal low flow holder for sorbent tubes & PC link software and cable sold separately.

** Pump 5-pack kit includes 5 each: pumps with single pack NiMH batteries, Luer hose adapter, shirt/hose clip, and 3 feet of vinyl hose. Also included is two operating manuals, Five standard chargers 100-240VAC , and a durable hard plastic case that accommodates additional accessories. Universal low flow holder for sorbent tubes sold separately