



The *BUCK Allin & Allin Plus 1* 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 sorbent tubes, 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).

****** 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.

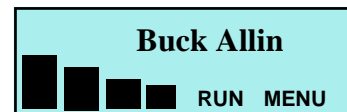
Features:

- 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 Compensation available in the Allin Plus models.
- Accuracy: ± 5% of compensation range
- Flow range 0.005-0.6LPM. 5cc/min – 99cc/min using Universal low flow Holder (included).
- High back pressure compensation, up to 36" of w.c. @300cc/min
- Accuracy: ± 5% of compensation range.
- Flow compensation for filter plugging and battery voltage.
- "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.

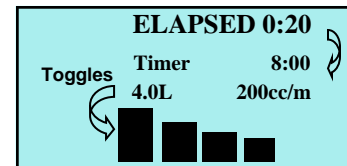


Flow Range 0.1 to 0.6 LPM
Low Flows 5-99 cc/min with
Universal Low Flow Holder

Main Display



Sampling Display



Rev. 5.11.2018



Performance Profile

Model: Allin & Allin Plus 1
Flow Range: 0.1-0.6 LPM (100-600 cc/min)
5 - 99 cc/min
With Universal Low Flow Holder
P.N. APB-109033

Compensation Range:
600 cc/min up to 10" water back pressure
500 cc/min up to 25" water back pressure
300 cc/min up to 36" water back pressure
200 cc/min up to 25" water back pressure
100 cc/min up to 10" water back pressure

Accuracy: ± 5% of Compensation Range

Run Time (hrs) at different backpressure and flow rate (cc/min)

Flow Rate (cc/min)	3" Backpressure	5" Backpressure	10" Backpressure	15" Backpressure	20" Backpressure	30" Backpressure	36" Backpressure
100	24hr	23hr	21hr				
200	20hr	19hr	18hr	16hr	15hr	14hr	
300	19hr	18hr	16hr	14hr	13hr	11hr	10hr
400	15hr	14hr	12hr	11hr	10hr	9hr	
500	13hr	10hr	9hr	9hr	7hr		
600	9hr	8hr	6hr				

Low Flow using Universal Low Flow Holder
5 to 99cc/min 1-8 hours

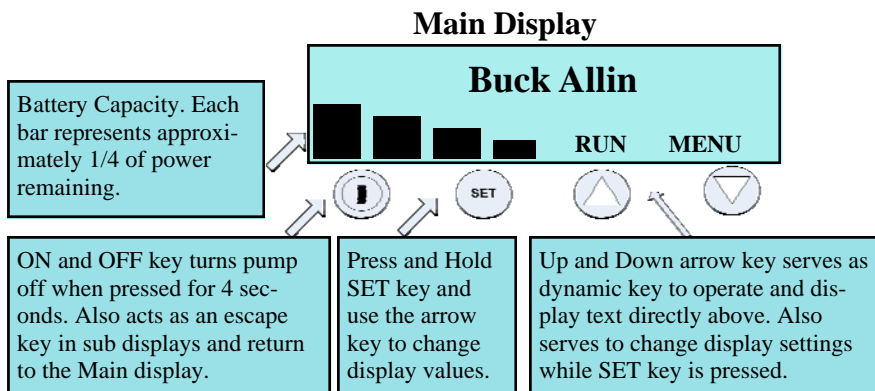
Data Storage Flow rate, elapsed clock time, accumulated
Allin Plus Only: volume, temperature, DP and any Flow Faults
are logged in the memory for download to PC

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



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 110 VAC - 240 VAC

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

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.

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: 4.5"H x 4"W x 2"D
(11.4 cm H x 10.2 cm W x 5 cm D)
Weight: 19 oz (539g)

PRODUCT	DESCRIPTION
APB-905000*	Buck Allin™ -1 Single Pack Pump kit with 120V Standard charger.
APB-905020*	Buck Allin™ -1 Single Pack Pump kit with 230V Standard charger.
APB-905050**	Buck Allin™ -1 5 pk Pump kit with Five Standard charger and case.
APB-905100*	Buck Allin Plus™ -1 Single Pack Pump kit with 120V Standard charger.
APB-905120*	Buck Allin Plus™ -1 Single Pack Pump kit with 220V Standard charger.
APB-905150**	Buck Allin Plus™ -1 5 pk Pump kit with Five Standard charger and case.

* Pump kit includes pump with a single pack NiMH battery, standard 120VAC battery charger, Luer hose adapter, shirt/hose clip, 3 feet of vinyl hose, operating manual, adjustable Universal low flow holder for sorbent tube sampling and non adjustable tube holder.

** 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, non adjustable tube holder and adjustable Universal low flow holder for sorbent tube sampling. Also included is two operating manuals, Five Standard charger 100-240VAC, and a durable hard plastic case that accommodates additional accessories.

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