

Quick Take 30

**Operating Instructions
Catalog No. 228-9530**



**SKC Inc.
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Form #40079—Rev 0709

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Notice: This operating instruction may not address all safety concerns (if any) associated with this product and its use. The user is responsible for determining and following the appropriate safety and health practices and regulatory limitations (if any) before using the product. The information contained in this document should not be construed as legal advice, opinion, or as a final authority on legal or regulatory procedures.

QuickTake 30 Quick Guide

Terms »

Star Button *

Turns on LED, toggles between displays, and exits without saving.

Up and Down Arrow Buttons ▲▼

Scroll through presets, increase or decrease sampling parameters, and toggle between setup options

Button Sequence

▲ or ▼ = Press individually

[▲▼] = Press both simultaneously

▲▼ = Security code, press in sequence

Programming Sequences »

• To activate pump LED:

Press and hold * for 2 seconds

• To check battery status:

Press *

• To choose a run time preset:

Press ▲ or ▼ to scroll through presets. Once desired preset displays, press [▲▼] to start sampling

• To Run or Hold:

Press [▲▼]

• To repeat a sample run:

From Done, reset (rSEt), or sampling error (SErr), press [▲▼] to return to run time preset. Press [▲▼] to sample.

• To change or calibrate flow:

Note: Flow rate does not appear on LED.

Press ▲ or ▼ and scroll to a run time preset. Press and hold CAL for 2 seconds. (Does not require a security code.) Press ▲ or ▼ to change flow rate until desired flow appears on calibrator. Press *. When Stor displays, press [▲▼] to save setting or * to ignore changes to flow setting.

• To interrupt run, terminate a sample, or reset pump:

While in Hold, press *. Sample reset (rSEt) will display. Press [▲▼] to reset pump or * to ignore reset and return to Hold

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Description

The QuickTake® 30 Sample Pump is a portable battery-powered air sampling pump that maintains constant airflow from 10 to 30 L/min for use with impactors, spore trap cassettes such as VersaTrap, asbestos cassettes, or other samplers requiring flows to 30 L/min. A diaphragm pump operating with a closed loop flow control system, the QuickTake 30 maintains true constant flow. The QuickTake 30 features a programmable timer that provides up to eight programmable run time presets of 1 to 999 minutes, continuous run with manual shut-off, or intermittent sampling. A rechargeable lithium-ion battery pack provides effective run times (*see Performance Profile - Typical Cumulative Run Time on p. 3*).



Cassette Adapter



Tubing Adapter



Performance Profile

Flow range: 10 to 30 L/min

Flow compensation accuracy: ± 5% of set flow

Compensating flow back pressure range: 10 L/min at 90 inches water back pressure
20 L/min at 50 inches water back pressure
30 L/min at 15 inches water back pressure

Typical Back Pressure of Sampling Media (*inches water*)

Flow Rate (L/min)	10	12	15	20
Filter/Pore Size (µm)				
25-mm MCE, 0.8	65	80	103	148
25-mm MCE, 0.45	138	172	> 200	—
37-mm MCE, 0.8	22	28	36	51
37-mm PVC, 5.0	9	11	15	21

Compare the information in this table to pump compensation range to determine appropriate applications.

Power: Rechargeable 7.2-volt lithium-ion (Li-Ion) battery (*see Li-Ion Battery Shipment on p. 4*) or battery with AC charger/adaptor (100-240 V)

Battery recharge time: Approximately 5 hrs

Typical cumulative run time†: Spore Trap* (e.g., VersaTrap®): 5 hrs at 15 L/min (*battery only*)
BioStage viable cascade impactor: 4 hrs at 28.3 L/min (*battery only*)
25-mm, 0.8 µm MCE filter: 1.5 hrs at 10 L/min (*battery only*)
25-mm, 0.8 µm MCE filter: 2.5 hrs at 10 L/min (*fully charged battery and AC adapter/charger*)
25-mm, 1.2 µm MCE filter: 9 hrs at 10 L/min (*fully charged battery and AC adapter/charger*)
37-mm, 0.8 µm MCE filter: >14 hrs at 10 L/min (*battery only*)

* Sampling times when using spore traps are usually ≤ 10 min. SKC recommends reducing length of sample time when using a 30 L/min flow rate to prevent overloading the media.

† Results obtained using a new pump and new fully charged batteries. Pump performance may vary.



The AC charger/adaptor can be used to extend battery run time, but it is not a battery eliminator. Therefore, it will not provide indefinite run times.

Temperature:

Operating: 32 to 113 F (0 to 45 C)

Storage: -4 to 113 F (-20 to 45 C)

Charging: 32 to 113 F (0 to 45 C)



Protect sample pump from weather when in use outdoors.

- Run time features:** User-selectable features, user-adjustable presets (*see Advanced Setup*)
- Preset timed runs:** 1, 2, 5, 10, or 15 min
- Manually set continuous run with manual shut-off:** 1 to 999 min (repeats 1 to 999-min runs indefinitely until user stops pump or power supply is depleted)
- Intermittent sampling:** *See Advanced Setup*
- Flow fault features:** If the pump is unable to compensate due to excessive back pressure, the pump will go into flow fault mode (*see page 13 for details*). Flow fault features are enabled as the default setting. Flow fault may be disabled at the user's option. *See Advanced Setup.*
- Flow fault:** Flow fault displays immediately. Pump shuts off after 5 seconds
- Fault restart:** Pump attempts restart every 10 seconds up to five times
- Media compatibility:** Viable cascade impactors, spore trap cassettes (e.g., VersaTrap), asbestos cassettes, wall cavity samplers, and other impaction samplers that require flows from 10 to 30 L/min
- Housing:** ABS plastic
- Dimensions:** 9.3 x 8.4 x 3.5 in (23.6 x 21.3 x 8.9 cm)
- Weight:** 4.8 lbs (2.2 kg)

Li-Ion Battery Shipment

Rechargeable, lithium-ion batteries for use with SKC sampling pumps have been tested in accordance with the UN Manual of Tests and Criteria and are designated as UN3091.

For air shipments:

Rechargeable lithium-ion batteries in SKC pumps are subject to the A-45 exemption to the IATA regulations and are not regulated for air shipments. This information must be written on the shipping document when shipping by air.

For ground shipments:

US DOT regulations specify a limit of 24 or fewer battery cells in one shipping box. If you exceed 3 QuickTake 30 pumps with battery packs in one shipping box, specific shipping requirements must be followed. Contact SKC for more information or refer to the regulatory authority in your area.



See <http://www.skcinc.com/instructions/1721.pdf> for more information on maintaining, disposing, and shipping Li-Ion batteries.



Indicates a warning, caution, or note.

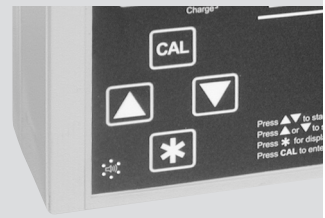
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Operation

Button Sequence

Buttons must be pressed in the sequence shown.

- ▲ or ▼ = Press individually
- [▲▼] = Press both simultaneously
- *▲▼* = Security code, press in sequence



Operating the Pump

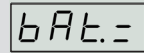
- **To activate LED:**
Press and hold * for 2 seconds.
- **To check battery status:**
With the LED on, press *.

Battery Status Indicators

Full charge; approximately 75% to 100% battery capacity remaining.



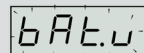
Battery is charged enough to operate the pump; approximately 25% to 75% battery capacity remaining.



Battery charge is low (charge battery); approximately 1% to 25% battery capacity remaining.



Low Battery Fault. Pump will stop running, beep, and go to sleep in 10 seconds.



To operate from AC power:

The QuickTake 30 may be run using AC power with the battery and AC charger/adaptor. Insert the charger plug into the jack on the pump and the charger into a standard wall outlet. Operate the pump.



The charge light on the LED will flash if the battery is charging during AC operation.



The AC charger/adaptor can be used to extend battery run time, but it is not a battery eliminator. Therefore, it will not provide indefinite run times.

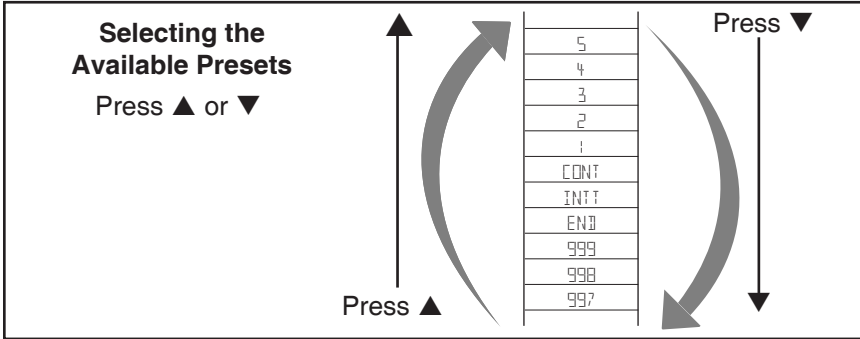
- **To navigate presets and displays:**

Press ▲ or ▼ to scroll through presets or displays.

- **To select a run time preset and run the pump:**

Scroll to desired run time preset.

Select preset by pressing [▲▼]. *The pump will start to run.*



- **To run the pump:**

Press [▲▼].

- **To place the pump in hold:**

Press [▲▼].

- **To repeat a sample run:**

From Done, reset (rSEt), or sampling error (SErr), press [▲▼] to return to run time preset. Press [▲▼] to sample.

- **To turn off LED:**

Pump automatically turns off LED after it is idle for 4 minutes. User can reactivate the LED by pressing and holding *.

- **To interrupt run, terminate a sample, or reset pump:**

From Hold, press *. Sample reset (rSEt) will display. Press [▲▼] to reset pump or * to ignore reset and return to Hold.

- **To set flow or calibrate:**

See Calibration and Setting Flow for details.

1. Connect a flowmeter to the pump inlet.
2. Scroll to any run time preset. Press and hold CAL for 2 seconds to enter calibration mode (pump will start running).
3. Press ▲ or ▼ to change flow rate until desired flow appears on the calibrator (*Flow rate does not display on LED*).
4. Press * and Stor will display. Press [▲▼] to save setting or * to ignore changes.

Mounting Sampling Media

Sampling with a Spore Trap Cassette

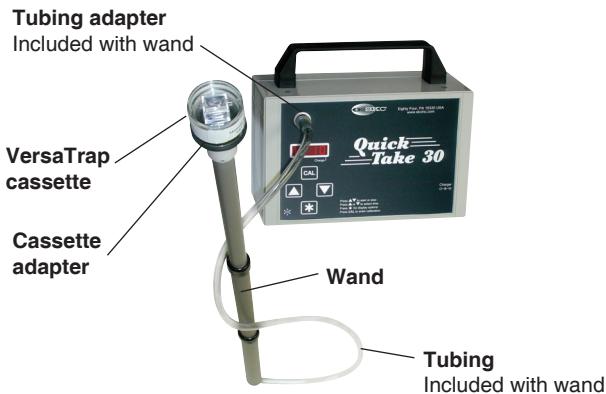
Use the cassette adapter supplied with the pump.

Insert the tube end of the adapter into the pump inlet up to the flange. Remove the seal from the outlet of the cassette and push the cassette onto the bowl end of the adapter until a firm seal is established.



Calibration Note: Flow rate can be calibrated by pushing the bowl end of a second cassette adapter onto the spore trap cassette inlet (seal removed), attaching flexible tubing to the tube end of the second adapter, and attaching the other end of the flexible tubing to the outlet of a calibrator.

Sampling with Sampling Wand Accessory (Cat. No. 228-9521)

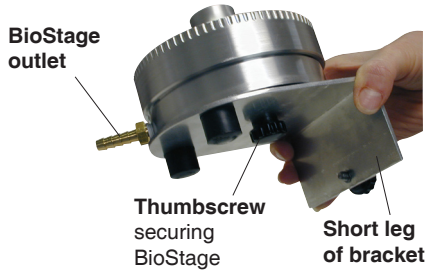


Insert the tube end of a cassette adapter into the hole on the top end of the sampling wand accessory (*see above*) up to the center flange. Remove the seal from the outlet of the cassette and push the cassette onto the bowl end of the adapter until a firm seal is established. Insert the tubing adapter on the flexible tubing (supplied with wand) into the pump inlet up to the center flange.

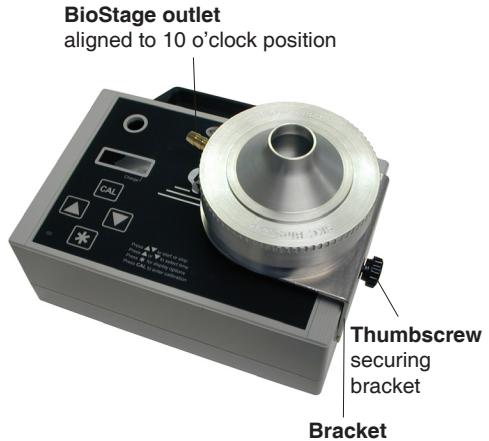
Sampling with a BioStage Impactor

Use with Mounting Bracket accessory (Cat. No. 228-9531).

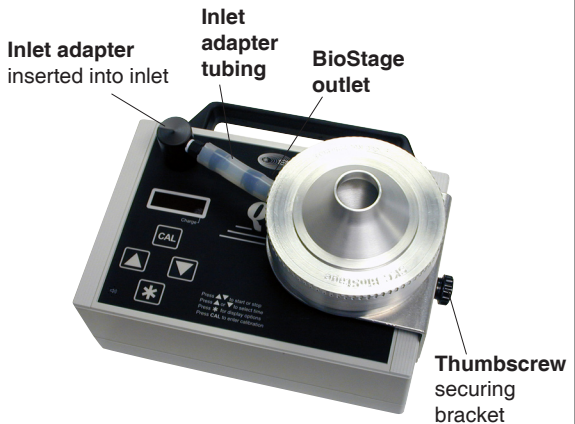
1. Place BioStage on L-shaped bracket. Align BioStage outlet to the 10 o'clock position on the bracket. Secure with thumbscrew on bottom of bracket.



2. Place L-shaped bracket to the right on the pump faceplate with the short leg of the bracket fitting over the right edge of the pump. Align hole on short leg of bracket with the hole on the side of the pump. Secure bracket to pump with thumbscrew.



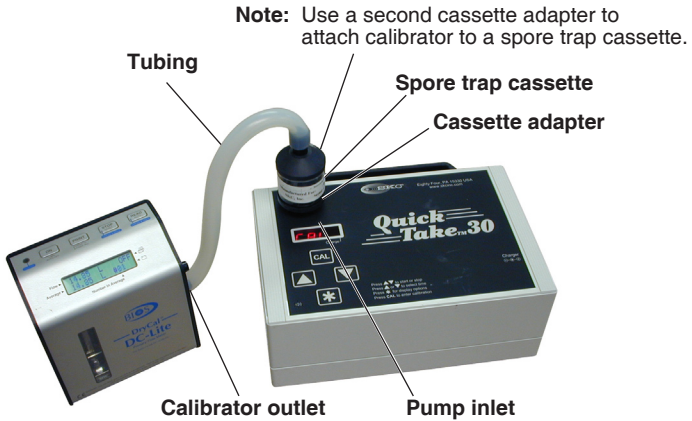
3. Insert the inlet adapter (included with bracket) into the pump inlet and connect inlet adapter tubing to the BioStage inlet.



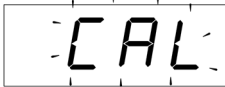
Calibration and Setting Flow

Use a primary standard calibrator to calibrate pump flow rate.

Calibrate flow rate with representative sampling medium in line.

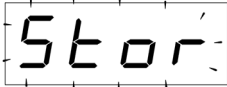


Calibration with a spore trap cassette

1. Using 3/8-inch ID flexible tubing and appropriate adapters, connect the inlet of the pump to the outlet of a representative sampling medium and a primary standard calibrator to the inlet of the representative sampling medium (as shown above).
2. Scroll to any run time preset. Press and hold the CAL button for two seconds. The pump will start running and a flashing CAL will appear on the LED.

Digital display:
Calibration mode
3. Press ▲ or ▼ to increase or decrease the flow until the desired flow rate is displayed on the calibrator.
4. Press ✱. A flashing Stor will appear on the LED.

To save new setting: Press [▲▼]. The pump will stop running.
To ignore new setting: Press ✱. The pump will stop running.



Digital display:
Store setting

Note: A security code is not needed to change flow rate. It is only required when changing factory settings. To change factory settings, see *Advanced Setup*.

Setup

Press ▲ or ▼ to scroll through the run time presets on the LED.

Run Time Mode

Timed Run (defaults: 15, 10, 5, 2, and 1 min)
Intermittent Sampling
Continuous Run

LED Display

t xx
Intt
Cont

The user may change run time presets. See *Advanced Setup, Programming Your Own Run Time Presets*.

Timed Run

Run time accumulates only while pump is running.

Timed Run mode is designed to perform one sample for a predetermined time from 1 to 999 minutes (selected from presets). The user starts the pump running and the pump automatically stops running after the sample time has elapsed.



Digital display:
Timed Run 2 minutes

1. Press ▲ or ▼ to scroll to the desired run time preset.
2. Press [▲▼] to select the desired preset. The pump will start running and the LED will display a count down to zero (run time remaining below one minute is displayed in seconds with a colon). The pump will stop and beep four times. The display will flash Done.
3. Press * to return to the run time preset display. If the user wishes to repeat the sample, press [▲▼].



Digital display:
Run time remaining is
2 seconds

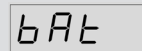


Digital display:
Sample run completed

User Options During Timed Run Sampling

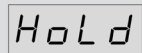
Viewing battery status

Press *. Display will automatically return to run time remaining after five seconds or press * again.



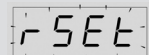
Hold mode

Press [▲▼] while the sample is running to place the pump and timer in Hold. Run time remaining and Hold will display alternately. Press [▲▼] while in Hold to continue the sample run.



Terminating a sample and resetting the pump

Press * while in Hold. Sample Reset (rSET) will flash on the LED.



To terminate sample and reset pump: Press [▲▼].

To continue sample run: Press * to return display to Hold. Press [▲▼].

Continuous Run with Manual Stop

Run time accumulates only while pump is running.

Continuous Run mode performs one sample from 1 to 999 minutes, then automatically resets to zero and counts up to 999 again until the user manually stops the pump.



Digital display:
Continuous Run

1. Press ▲ or ▼ to scroll to Cont. Press [▲▼] to select it.
The pump will start and the LED will display cumulative run time up to 59 seconds in seconds, then switch to minutes. The timer will count up to 999 minutes, automatically reset to zero, and count up to 999 minutes again until the user manually stops the pump.
2. Press [▲▼] to place the pump in Hold when the desired sampling time has elapsed. The LED will display cumulative run time and Hold alternately.
To continue sample run: Press [▲▼].
To terminate sample and reset pump: Press * while in Hold. Sample Reset (rSEt) will flash on the LED. Press [▲▼].

User Options During Continuous Run Sampling

Viewing battery status

Press *. Display will automatically return to cumulative run time after five seconds or press * again.



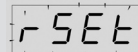
Hold mode

Press [▲▼] while the sample is running to place the pump and timer in Hold. Hold and cumulative run time will display alternately. Press [▲▼] while in Hold to continue the sample run.



Terminating a sample and resetting the pump

Press * while in Hold. Sample Reset (rSEt) will flash on the LED.



To terminate sample and reset pump: Press [▲▼].
To continue sample run: Press * to return the display to Hold. Press [▲▼].

For Intermittent Sampling, see Advanced Setup.

Sampling



QuickTake 30 with cassette adapter and a spore trap cassette

1. Ensure that the battery has sufficient capacity for the desired sampling time (see *Operation, Battery Status Indicators*).
2. Calibrate the QuickTake 30 for the desired flow rate (see *Calibration and Setting Flow*).
3. Place the pump in the sampling location.



Protect sample pump from weather when in use outdoors.

4. Replace representative sampling medium used for calibration with a fresh unexposed sampling medium.
5. Press ▲ or ▼ to scroll to a run time preset. See *Timed Run, Continuous Run, or Intermittent Sampling*.
6. Once the desired preset is displayed, press [▲▼] to start the pump running. Record sample start time.



If the user wishes to stop sampling and reset the pump, see *Terminating a Sample and Resetting the Pump*.

7. When sampling is completed:
 - a. **Timed Run mode** - The display will count down to zero and the pump will stop. The alarm will beep four times. The display will flash Done. Press * to return to presets. If a repeat sample is desired, press [▲▼].
 - b. **Continuous Run mode** - The timer will count up to 999 minutes, automatically reset to zero, and count again to 999 minutes until user stops the pump. Press [▲▼] to place the pump in Hold when the desired sampling time has elapsed. Hold and cumulative run time will flash alternately. Press * while in Hold. Sample reset (rSEt) will appear on the LED. Press [▲▼] to terminate the cumulative run and reset the pump. If a repeat sample is desired, press [▲▼].
 - c. **Intermittent Sampling mode** - The display will count up to set run time, count down from set delay time to 0, then run again. Pump will cycle until the programmed number of cycles are completed. The alarm will beep four times. The display will flash Done. Press [▲▼] to return to the run time preset. If a repeat sample is desired, press [▲▼].

A digital display showing the word 'done' in a stylized, blocky font.

*Digital display:
Sample run completed*

A digital display showing the word 'Hold' in a stylized, blocky font.

*Digital display:
Pump and Timer in Hold*

A digital display showing 'rSEt' in a stylized, blocky font.

*Digital display:
Terminate sample and
reset pump*

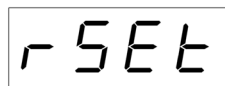
A digital display showing 'C 5' in a stylized, blocky font.

*Digital display:
Cumulative run time*

8. Remove and seal the sample medium.
9. Re-assemble the calibration train (see *Calibration and Setting Flow*) and verify flow.
10. Send sample, blanks, and pertinent sampling information to a laboratory for analysis.

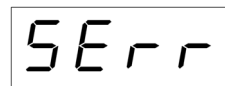
Terminating a Sample and Resetting the Pump

For timed and continuous runs: from a running pump, press [▲▼]. The pump is now in Hold. Press * while in Hold. Sample reset (rSEt) will display. Press [▲▼] to zero the cumulative run time and reset the pump.



*Digital display:
Terminate sample and
reset pump*

For intermittent sampling, there is no Hold. Press [▲▼] to stop the pump. The LED will display SErr (sampling error). Press * to view cumulative run time. Press [▲▼] to return to run time presets.



*Digital display:
Sampling Error*



Cumulative run time resets to 0 even if intermittent sampling is started again.

Flow Fault

Manufacturer default: enabled. User may disable feature.

If the pump is not able to compensate due to excessive back pressure, a flashing FLOF will appear on the LED. If the fault is not corrected within five seconds, the pump will beep four times and stop running.



*Digital display:
Flow fault*

Restoring Sampling from a Flow Fault

Fault restart (manufacturer default: enabled).

Fault restart will attempt to restart the pump every 10 seconds up to five times. Cumulative run time can be displayed by pressing *. Press * again to return to the fault (FLOF) display. If pump does not automatically restart, attempt to correct the flow blockage, then press [▲▼] to place pump in Hold. Press [▲▼] to resume sampling.

Fault restart (user disabled).

Cumulative run time can be displayed by pressing *. Press * again to return to the FLOF display. Attempt to correct flow blockage and press [▲▼] to place pump in Hold. Press [▲▼] to resume sampling.



The flow fault and flow fault restart features can be enabled or disabled by the user as desired. See *Advanced Setup, Enabling/Disabling Alarm and Fault Features*.

Advanced Setup

Intermittent Sampling

Intermittent Sampling allows the pump to be programmed to run for a specific number of minutes up to 999, to shut off for a programmed length of time, and to continue sampling on and off for a predetermined number of cycles (e.g., program the pump to run three cycles (n) of 15 minutes each (r) with a five-minute delay (d) between each cycle).



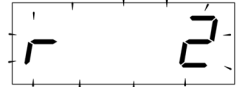
Digital display:
Intermittent Sampling

Entering Intermittent Sampling Mode

Press ▲ or ▼ to scroll to Intt. Press * to enter the intermittent sampling setup mode.

Setting Run Time (r)

1. Press ▲ or ▼ to increase or decrease run time. The display will flash. If no change to run time is desired, press * to move to delay time.
2. When finished, press *. Stor will flash on the display.
To save new setting: Press [▲▼]. Press * to move to delay time setup.
To ignore new setting: Press *. Display will move to the delay time.



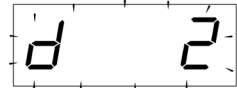
Digital display:
Set run time



If displayed values are not changed, the flashing Stor will not appear and pressing * will move the display to the next parameter to be set.

Setting Delay Time (d)

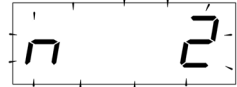
1. Press ▲ or ▼ to increase or decrease delay time. The display will flash. If no change to delay time is desired, press * to move to number of cycles.
2. When finished, press *. Stor will flash on the display.
To save new setting: Press [▲▼]. Press * to move to number of cycles setup.
To ignore new setting: Press *. Display will move to the number of cycles.



Digital display:
Set delay time

Setting the Number of Cycles (n)

1. Press ▲ or ▼ to increase or decrease number of cycles. The display will flash. If no change to number of cycles is desired, press * to return to Intt.



Digital display:
Set number of cycles

2. When finished, press *. Stor will flash on the display. **To save new setting:** Press [▲▼]. Press * to return to Intt.

To ignore new setting: Press *. The LED will return to Intt.

Start sampling by pressing [▲▼]. The LED will count up to 59 seconds, then switch to minutes up to the set minutes run time. The pump will stop for the programmed number of delay minutes while the LED displays a count down from the set delay time to zero. The pump will start sampling again. The pump will beep four times and the display will flash Done after the desired cycles are completed. Press * to display cumulative run time. Press * to return to Done. Press [▲▼] to return the display to the run time preset. If a repeat sample is desired, press [▲▼].



Digital display:
Sample run completed

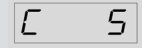
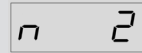


Intermittent sampling settings are retained when pump goes to sleep.

User Options During Intermittent Sampling

Viewing number of cycles remaining and cumulative run time

Press * repeatedly while the sample or delay is running. If the unit is left untouched for five seconds, the display will automatically return to cumulative time.



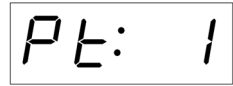
Terminating a sample and resetting the pump

There is no Hold available in intermittent sampling. Therefore, pressing [▲▼] will stop the sampling and the LED will display SErr (sampling error). Press * to view cumulative run time. Press [▲▼] to return to run time presets.



Programming Your Own Run Time Presets

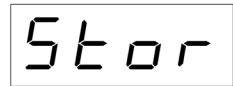
1. Press *▲▼*.
2. Pt: 1 will alternately display with T xx. This corresponds to the first stored preset time.
3. Press ▲ to scroll to the number of minutes (1 to 999). Press ▼ to scroll to Cont, Intt, or End mode options. *End will not appear as an option during setup of first preset.*
4. When the LED displays the desired time or mode, press * to move to the next preset time.
5. Repeat Steps 3 and 4 for each preset up to eight presets. The sequence will repeat from one to eight.
6. When finished, press [▲▼]. Stor will display on the LED.



Digital display:
First preset



Digital Display:
Time set for preset 1



Digital display:
Store settings

To save new settings: Press [▲▼]. The pump will return to normal pump operation.

To ignore new settings: Press *. The pump will return to normal pump operation.

Note: While programming presets, scrolling below Intt will display End after the first preset is selected. Choosing End will truncate the stored preset sequence (*see below*). For example, if the user desires to store only two presets, preset time 3 can be set to End, shortening the number of presets to scroll through. Times programmed for preset times Pt: 4 through 8 will not display until the presets are changed to make them display or the factory defaults are reset (*see Resetting Pump to Manufacturer Default Settings*).

Presets Sequence

Preset 8	End
Preset 7	Intt
Preset 6	Cont
Preset 5	t 15
Preset 4	t 10
Preset 3	t 5
Preset 2	t 2
Preset 1	t 1

Manufacturer Default Presets

Preset 8	End
Preset 7	Intt
Preset 6	Cont
Preset 5	t 1 - 999
Preset 4	End
Preset 3	t 1 - 999
Preset 2	t 1 - 999
Preset 1	t 1 - 999

The pump returns to the beginning preset at the first End it encounters. This allows the user to shorten the number of presets to be scrolled through. **Preset 1 cannot be set to End.**

Enabling/Disabling Alarm and Fault Features

1. Press the security code *▲▼* to enter setup mode.
2. Press CAL. The pump serial number will display briefly.
3. Press ▲ or ▼ to turn feature on or off (see below). Press * to advance to next feature.
4. Press [▲▼] to exit feature setup. Press [▲▼] again to return to run time presets.

Feature

Button Beeper: On/Off

ON

bbP 1

*Digital display:
Button beep on*

OFF

bbP 0

*Digital display:
Button beep off*

Alarm Beeper: On/Off

AbP 1

*Digital display:
Alarm beep on*

AbP 0

*Digital display:
Alarm beep off*

Flow Fault: On/Off

FFt 1

*Digital display:
Flow fault on*

FFt 0

*Digital display:
Flow fault off*

Flow Fault Restart: On/Off

Frt 1

*Digital display:
Flow restart on*

Frt 0

*Digital display:
Flow restart off*

Resetting Pump to Manufacturer Default Settings

1. Press the security code *▲▼* and then press the CAL button. The pump serial number will display briefly.
2. Press * repeatedly to scroll through until the LED displays Deflt.
3. Press [▲▼]. The word No will appear on the display.
To reset to factory default settings: Press *. Yes will appear on the display. Press [▲▼].
To retain existing settings: Press * to scroll to No and press [▲▼].

dEFLt

*Digital display:
Pump default*

4E5

*Digital display:
Yes, reset to pump default*

no

*Digital display:
No, do not reset to pump default*

The number 30 will appear briefly, then the display will return to run time presets.

Maintenance

1. Keep the pump clean and free of dust and dirt. It may be wiped with a dry cloth.
2. Keep the battery charged (*see Battery Operation*). Charge periodically when pump is not used for prolonged periods.

Battery Operation

Charging the battery

To charge the battery, insert the charger plug into the jack on the pump and the charger into a wall outlet. A red LED will flash on the pump display to indicate the unit is charging. When charging is complete, the LED will stop flashing and the pump will go to sleep. The QuickTake 30 can be operated using AC power. *See Operation, To operate from AC Power.* The battery charges completely in five hours.



- The pump will not sleep during charging. Connecting a sleeping pump to the charger will wake it up from sleep.
- The AC charger/adaptor can be used to extend battery run time, but it is not a battery eliminator. Therefore, it will not provide indefinite run times.

Installing a Replacement Battery

1. Lift up and remove the two panels covering the screws from the back plate of the pump (pressure fit).

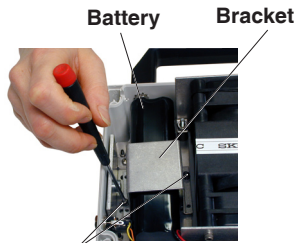


2. Loosen the four safety screws.

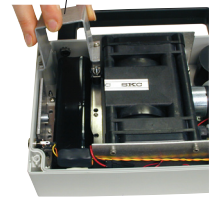
3. Lift off back of pump case.



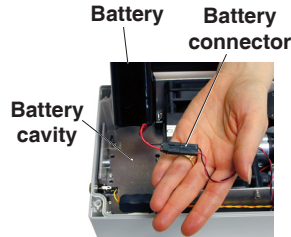
4. Remove the two screws from the bracket, slide bracket forward, and lift it out.
5. Carefully lift the battery pack out of the case and detach it from the connector.
6. Attach the new battery to the connector.
7. Replace the battery pack in the pump case.
8. Replace the bracket and two screws.
9. Replace the back of the pump case and tighten four safety screws.
10. Replace the two panels and press until flush with case.



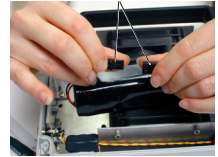
Slide bracket forward and lift out.



Bracket screws



Battery connector pulls apart



Battery cavity

Cautions and Warnings

- To reduce risk of injury, fire, or electric shock, always follow basic safety precautions when using this product.
- Batteries may explode or leak and cause burn injury if disassembled.
- Use only the approved charger and battery for this product. Mixing this product with a different battery type or charger may cause damage to the pump and cause injury if the battery explodes. **Using non-approved batteries or charger voids the warranty.**
- Do not submerge the pump or subject it to any liquids.



Protect sample pump from weather when in use outdoors.

Li-Ion Battery Shipment

Rechargeable, lithium-ion batteries for use with SKC sampling pumps have been tested in accordance with the UN Manual of Tests and Criteria and are designated as UN3091.

For air shipments:

Rechargeable lithium-ion batteries in SKC pumps are subject to the A-45 exemption to the IATA regulations and are not regulated for air shipments. This information must be written on the shipping document when shipping by air.

For ground shipments:

US DOT regulations specify a limit of 24 or fewer battery cells in one shipping box. If you exceed 3 QuickTake 30 pumps with battery packs in one shipping box, specific shipping requirements must be followed. Contact SKC for more information or refer to the regulatory authority in your area.



See <http://www.skcinc.com/instructions/1721.pdf> for more information on maintaining, disposing, and shipping Li-Ion batteries.

Service Policy

To return products to SKC for servicing:

1. Call 800-752-8472 (724-941-9701 for international customers) to obtain a Return Materials Authorization (RMA) number and Product Decontamination Form.
2. Carefully package the product. Mark the RMA number on any correspondence relating to the return and on the outside of the package.

Package product carefully to prevent damage during transit. Include a contact name, phone number, shipping address, RMA number, and a brief description of the problem. For nonwarranty repairs, a purchase order number and billing address are also required. The Service Department will contact nonwarranty customers with an estimate before proceeding with repairs.

Rechargeable lithium-ion batteries for use with SKC sampling pumps have been tested in accordance with the UN Manual of Tests and Criteria and are designated as UN3091. To be exempt from Dangerous Goods Shipping requirements, the box must contain 12 or fewer lithium batteries or 24 or fewer cells. Therefore, limit any box to be shipped to the following number of pumps:

Leland Legacy Pump - 2 pumps
QuickTake 15 - 12 pumps
QuickTake 30 - 3 pumps

3. Ship to SKC, freight prepaid, to the following address:

SKC Inc.
National Service Center
863 Valley View Road
Eighty Four, PA 15330



SKC Inc. will accept for repair any SKC product that is not contaminated with hazardous materials. Products determined to be contaminated will be returned unserviced.



Replacing parts with non-SKC parts voids the manufacturer warranty.

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SKC INC. LIMITED ONE YEAR WARRANTY

1. SKC warrants that its instruments provided for industrial hygiene, environmental, gas analysis, and safety and health applications are free from defects in workmanship and materials under normal and proper use in accordance with operating instructions provided with said instruments. The term of this warranty begins on the date the instrument is delivered to the buyer and continues for a period of one (1) year.

This warranty does not cover claims due to abuse, misuse, neglect, alteration, accident, or use in application for which the instrument was neither designed nor approved by SKC Inc. This warranty does not cover the buyer's failure to provide for normal maintenance, or improper selection or misapplication. This warranty shall further be void if changes or adjustments to the instrument are made by other than an employee of the seller, or if the operating instructions furnished at the time of installation are not complied with.

2. SKC Inc. hereby disclaims all warranties either expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose, and neither assumes nor authorizes any other person to assume for it any liability in connection with the sale of these instruments. No description of the goods being sold has been made a part of the basis of the bargain or has created or amounted to an express warranty that the goods will conform to any such description. Buyer shall not be entitled to recover from SKC Inc. any consequential damages, damages to property, damages for loss of use, loss of time, loss of profits, loss of income, or other incidental damages. Nor shall buyer be entitled to recover from SKC Inc. any consequential damages resulting from defect of the instrument including, but not limited to, any recovery under section 402A of the Restatement, Second of Torts.

3. This warranty extends only to the original purchaser of the warranted instrument during the term of the warranty. The buyer may be required to present proof of purchase in the form of a paid receipt for the instrument.

4. This warranty covers the instrument purchased and each of its component parts.

5. In the event of a defect, malfunction, or other failure of the instrument not caused by any misuse or damage to the instrument while in possession of the buyer, SKC Inc. will remedy the failure or defect without charge to the buyer. The remedy will consist of service or replacement of the instrument. SKC Inc. may elect refund of the purchase price if unable to provide replacement and repair is not commercially practicable.

6. (a) To obtain performance of any obligation under this warranty, the buyer shall return the instrument, freight prepaid, to SKC Inc., at the following address:

SKC Inc., National Service Center
863 Valley View Road
Eighty Four, PA 15330 USA

(b) To obtain return authorization information or for further information on the warranty performance you may telephone 724-941-9701 at the above address. See Service Policy section in operating manual (if applicable).

7. This warranty shall be construed under the laws of the Commonwealth of Pennsylvania which shall be deemed to be the situs of the contract for purchase of SKC Inc. instruments.

8. No other warranty is given by SKC Inc. in conjunction with this sale.

Ordering Information

Description	Cat. No.
QuickTake 30 Sample Pump includes battery pack and cassette and tubing adapters (<i>requires 223-245 charger accessory below</i>)	228-9530C*
QuickTake 30 Sample Pump and Charger includes one pump with battery pack, AC charger/adaptor (100-240 V), cassette and tubing adapters, and tubing	228-9530*
QuickTake 30 Sample Pump, Rotameter, and Charger includes one pump with battery pack, AC charger/adaptor (100-240 V), cassette and tubing adapters, rotameter, and tubing	228-9530A*
QuickTake 30 BioStage Pump Kit includes pump and charger as described above, Standard BioStage Impactor, mounting bracket with inlet adapter, calibration adapter, rotameter, and deluxe carry case	228-9530K*
Replacement Parts	
Replacement Inlet Filters, pk/50	P40021A
Stem Tubing Adapter, pk/2	P31239
Cassette Adapter	P33100
Reducing Adapter for Tubing, 3/8 inch to 1/4 inch, pk/2	P31211
Replacement Battery Pack	P75689*
Replacement Stack for QuickTake 30	P21266
Accessories	
Worldwide Charger/Adapter	223-245
Defender Primary Flowmeter, 300 ml/min to 30 L/min, includes lead-acid battery, multi-plug charger (100-240 V), Optimizer 110 Software, and 1-meter serial cable	717-510H
Sampling Wand, telescopes to 34 inches for ductwork and hard-to-reach locations; includes 6 ft of tubing	228-9521
Tripod Stand, telescopes to 5 ft for mounting sample media (QuickTake 30 pump will not mount on this stand)	225-9536
Mounting Bracket for BioStage Impactor includes inlet adapter	228-9531
Rotameter, to check approximate flow rate	320-100
Tygon Tubing, 3/8 inch ID	10 ft 225-1351 50 ft 225-1352

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