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NoiseCHEK Personal Noise Dosimeter
Cat. No. 701-001 Series
Operating Instructions

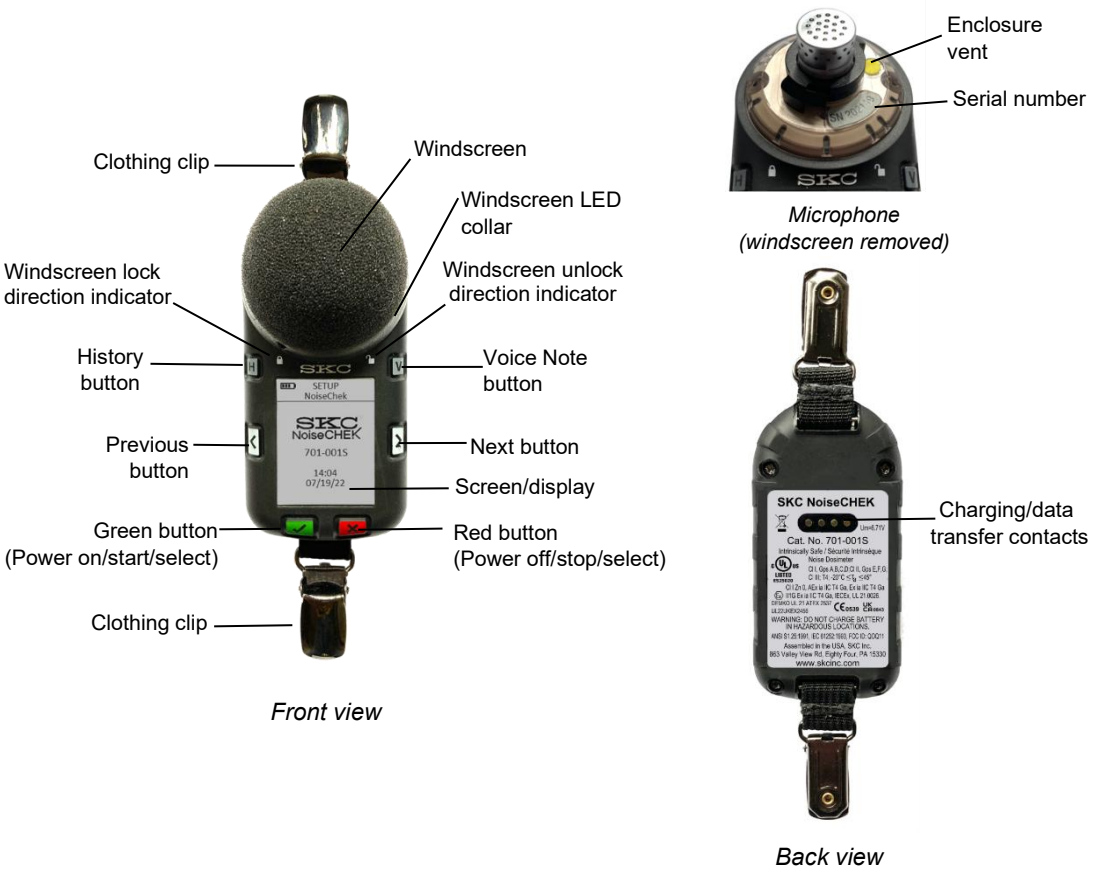

Figure 1. NoiseCHEK Personal Noise Dosimeter — Overview

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INTRODUCTION

The SKC NoiseCHEK Personal Noise Dosimeter (*Figure 1*) measures a worker's daily noise exposure in the workplace as required to meet regulations and standards for compliance. The SKC NoiseCHEK Cat. No. 701-001 Series includes intrinsically safe models and models for use only in non-hazardous locations; Bluetooth® Low Energy (BLE) models feature connectivity to the SmartWave dB mobile app. The series includes the following models:

Cat. No./model	Description
701-001S	Intrinsically safe, cULus Listed and IECEx/ATEX certified; BLE
701-001NBS	Intrinsically safe, cULus Listed and IECEx/ATEX certified; no BLE capability
701-001NBVAS	Intrinsically safe, cULus Listed and IECEx/ATEX certified; no BLE capability, Voice Note, or audio recording
701-001	For use only in non-hazardous locations, BLE
701-001NB	For use only in non-hazardous locations, no BLE capability
701-001SANZ	Intrinsically safe, ANZEx certified; BLE
701-001NBSANZ	Intrinsically safe, ANZEx certified; no BLE capability
701-001NBVASANZ	Intrinsically safe, ANZEx certified; no BLE capability, Voice Note, or audio recording

NoiseCHEK has a ½-inch Class 2 microphone and is worn on the apex of the shoulder with the microphone close to the ear and away from the neck. Clothing clips on each end of the device attach the dosimeter securely to a worker's shoulder.

Program up to four virtual dosimeters in the noise dosimeter for simultaneous compliance and monitoring per OSHA, ACGIH, MSHA, and a User Custom option to meet internal standards that may exceed the exposure requirements of regulations. Settings are enabled/modified using SKC DataTrac™ dB Software for NoiseCHEK. *See Using DataTrac dB Software.*

A note about default settings: *NoiseCHEK has been shipped with programmed settings for OSHA compliance and AIHA recommendations listed in the table below.*

Default Settings	
Virtual dosimeters/parameters	OSHA Hearing Conservation (HC) OSHA Permissible Exposure Limit (PEL) ACGIH
Measurement readings for sample runs	SPL, TWA, Dose, Lavg, Peak, Lmax, pTWA, pDose, and Upper Limit
Measurement readings shown in History	TWA, Dose, Lavg, Peak, Lmax, pDose, and Upper Limit
History sample rate	60 seconds
Voice Note **(*all models except Cat. No. 701-001NBVAS and 701-001NBVASANZ)***	Enabled
Secure Lock **(*Cat. Nos. 701-001, 701-001S, and 701-001SANZ only*)**	Enabled – PIN (default 1 2 3 4) required to connect to SKC SmartWave dB app. *See Lock Feature, Cat. Nos. 701-001, 701-001S, and 701-001SANZ*.

Checking Dosimeter/Kit Contents

Use the table below to verify that you received all items associated with the Cat. No. ordered. If you are missing items, contact SKC at 800-725-8472 (US only) or 724-941-9701.

If you ordered Cat. No.	Your package should contain
701-001S	**Dosimeter only**, *requires charging dock; see kits below or Accessories/Replacement Parts*
701-001KS	**Single Kit** includes dosimeter, 1-unit Charging Dock with power supply, USB cable, and USB drive with instruction manual, in a protective carry case
701-001KS-C	**Single Kit with Class 2 Calibrator** includes dosimeter, 1-unit Charging Dock with power supply, AcoustiCHEK Calibrator, USB cable, and USB drive with instruction manual, in a protective carry case
701-001K3S	**3-pack Kit** includes 3 dosimeters and 1 each: 5-unit Charging Dock with power supply, replacement windscreen, USB cable, and USB drive with instruction manual, in a protective charging carry case
701-001K3S-C	**3-pack Kit with Class 2 Calibrator** includes 3 dosimeters and 1 each: 5-unit Charging Dock with power supply, AcoustiCHEK Calibrator, replacement windscreen, USB cable, and USB drive with instruction manual, in a protective charging carry case
701-001K5S	**5-pack Kit** includes 5 dosimeters and 1 each: 5-unit Charging Dock with power supply, replacement windscreen, USB cable, and USB drive with instruction manual, in a protective charging carry case
701-001K5S-C	**5-pack Kit with Class 2 Calibrator** includes 5 dosimeters and 1 each: 5-unit Charging Dock with power supply, AcoustiCHEK Calibrator, replacement windscreen, USB cable, and USB drive with manual, in a protective charging carry case
701-001NBS	**Dosimeter only,** *requires charging dock; see kits below or Accessories/Replacement Parts*
701-001KNBS	**Single Kit** includes dosimeter, 1-unit Charging Dock with power supply, USB cable, and USB drive with instruction manual, in a protective carry case
701-001KNBS-C	**Single Kit** w**ith Class 2 Calibrator** includes dosimeter, 1-unit Charging Dock with power supply, AcoustiCHEK Calibrator, USB cable, and USB drive with instruction manual, in a protective carry case
701-001K3NBS	**3-pack Kit** includes 3 dosimeters and 1 each: 5-unit Charging Dock with power supply, replacement windscreen, USB cable, and USB drive with instruction manual, in a protective charging carry case
701-001K3NBS-C	**3-pack Kit with Class 2 Calibrator** includes 3 dosimeters and 1 each: 5-unit Charging Dock with power supply, AcoustiCHEK Calibrator, replacement windscreen, USB cable, and USB drive with instruction manual, in a protective charging carry case
701-001K5NBS	**5-pack Kit** includes 5 dosimeters and 1 each: 5-unit Charging Dock with power supply, replacement windscreen, USB cable, and USB drive with instruction manual, in a protective charging carry case
701-001K5NBS-C	**5-pack Kit with Class 2 Calibrator** includes 5 dosimeters and 1 each: 5-unit Charging Dock with power supply, AcoustiCHEK Calibrator, replacement windscreen, USB cable, and USB drive with instruction manual, in a protective charging carry case
701-001NBVAS	**Dosimeter only,** *requires charging dock; see kits below or Accessories/Replacement Parts*
701-001KNBVAS-C	**Single Kit with Calibrator** includes dosimeter, 1-unit Charging Dock with power supply, USB cable, and USB drive with instruction manual, in a protective carry case
701-001K5NBVAS-C	**5-pack Kit** w**ith Class 2 Calibrator** includes 5 dosimeters and 1 each: 5-unit Charging Dock with power supply, AcoustiCHEK Calibrator, replacement windscreen, USB cable, and USB drive with instruction manual, in a protective charging carry case
701-001SANZ	**Dosimeter only,** *requires charging dock; see Accessories/Replacement Parts*
701-001NBSANZ	**Dosimeter only,** *requires charging dock; see Accessories/Replacement Parts*

If you ordered Cat. No.	Your package should contain
701-001NBVASANZ	**Dosimeter only,** *requires charging dock; see Accessories/Replacement Parts*
701-001	**Dosimeter only**, *requires charging dock; see kits below or Accessories/Replacement Parts*
701-001K	**Single Kit** includes dosimeter, 1-unit Charging Dock with power supply, USB cable, and USB drive with instruction manual, in a protective carry case
701-001K-C	**Single Kit with Class 2 Calibrator** includes dosimeter, 1-unit Charging Dock with power supply, AcoustiCHEK Calibrator, USB cable, and USB drive with instruction manual, in a protective carry case
701-001K3	**3-pack Kit** includes 3 dosimeters and 1 each: 5-unit Charging Dock with power supply, replacement windscreen, USB cable, and USB drive with instruction manual, in a protective charging carry case
701-001K3-C	**3-pack Kit with Class 2 Calibrator** includes 3 dosimeters and 1 each: 5-unit Charging Dock with power supply, AcoustiCHEK Calibrator, replacement windscreen, USB cable, and USB drive with instruction manual, in a protective charging carry case
701-001K5	**5-pack Kit** includes 5 dosimeters and 1 each: 5-unit Charging Dock with power supply, replacement windscreen, USB cable, and USB drive with instruction manual, in a protective charging carry case
701-001K5-C	**5-pack Kit with Class 2 Calibrator** includes 5 dosimeters and 1 each: 5-unit Charging Dock with power supply, AcoustiCHEK Calibrator, replacement windscreen, USB cable, and USB drive with manual, in a protective charging carry case
701-001NB	**Dosimeter only,** *requires charging dock; see kits below or Accessories/Replacement Parts*
701-001KNB	**Single Kit** includes dosimeter, 1-unit Charging Dock with power supply, USB cable, and USB drive with instruction manual, in a protective carry case
701-001KNB-C	**Single Kit** w**ith Class 2 Calibrator** includes dosimeter, 1-unit Charging Dock with power supply, AcoustiCHEK Calibrator, USB cable, and USB drive with instruction manual, in a protective carry case
701-001K3NB	**3-pack Kit** includes 3 dosimeters and 1 each: 5-unit Charging Dock with power supply, replacement windscreen, USB cable, and USB drive with instruction manual, in a protective charging carry case
701-001K3NB-C	**3-pack Kit with Class 2 Calibrator** includes 3 dosimeters and 1 each: 5-unit Charging Dock with power supply, AcoustiCHEK Calibrator, replacement windscreen, USB cable, and USB drive with instruction manual, in a protective charging carry case
701-001K5NB	**5-pack Kit** includes 5 dosimeters and 1 each: 5-unit Charging Dock with power supply, replacement windscreen, USB cable, and USB drive with instruction manual, in a protective charging carry case
701-001K5NB-C	**5-pack Kit with Class 2 Calibrator** includes 5 dosimeters and 1 each: 5-unit Charging Dock with power supply, AcoustiCHEK Calibrator, replacement windscreen, USB cable, and USB drive with instruction manual, in a protective charging carry case

- *Do not apply stickers to the back of the dosimeter because this can cause connectivity issues while the dosimeter is in the charging dock.*

Charging the Battery

Set up the charging train (*Figure 2a or 2b as applicable*) and completely charge the battery before operating the dosimeter. *See Determining Battery Charge Status.* ***Note****: All 3-pack and 5-pack kits, including those with calibrator, feature a carry case with charging cable installed to charge dosimeters inside the case. See Charging Train in Carry Case with Charging Cable Installed and Figure 2b.*

1. Prepare the charging dock (1-unit Charging Dock Cat. No. 701-002 or 5-unit Charging Dock Cat. No. 701-003). *See Figure 2a.*
    a. Insert the power supply into the power jack on the back of the charging dock.
    b. Plug power supply cube into 100-240 V power supply. The power LED on the back of the dock will light up blue when connected to the power supply. ***Note****: You can also charge NoiseCHEK by connecting the charging dock to your PC or a USB battery bank with a USB cable. Charging time may increase significantly depending on the power available from the USB port used. When the battery is fully discharged, it may take up to 5 to 10 minutes before charging status indication appears when using a USB cable. During that time, the display remains dark and no amber LEDs blink.*
2. Place the NoiseCHEK in the prepared charging dock. Battery charging status bars will be displayed on the dosimeter screen (*see right*); five amber LEDs will blink during charging. Full charge is indicated by five green blinking LEDs. ***Note:*** *When the battery is fully charged, the LCD (display) will shut down. The green LEDs will continue blinking while the dosimeter remains in the charging dock.*



When the dosimeter is fully charged, SKC recommends removing it from the charging dock and unplugging the charging dock to prolong battery life and conserve energy.

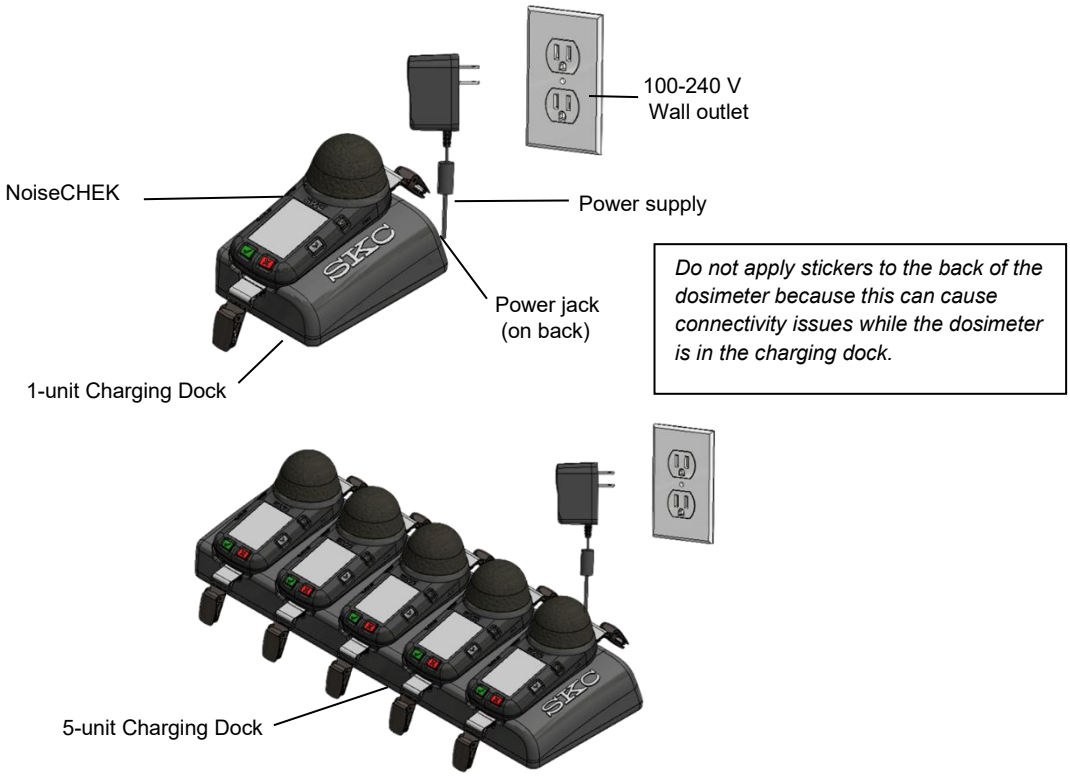


Figure 2a. Charging Train

Charging Train in Carry Case with Charging Cable Installed

- *Do not apply stickers to the back of the dosimeter because this can cause connectivity issues while the dosimeter is in the charging dock.*

The carry case for all 3-pack and 5-pack kits, including those with calibrator, has a charging cable installed and a power jack for connection to the charging dock and power supply for charging in the case. *See Figure 2b.*

1. Prepare 5-unit Charging Dock Cat. No. 701-003.
    a. Insert the built-in charging cable into the power jack on the back of the charging dock.
    b. Plug power supply into the power jack on the side of the case; plug the power supply cube into a 100-240 V power supply. The power LED on the back of the dock will light up blue when connected to the power supply.



Figure 2b. Charging Train in Carry Case with Charging Cable Installed

2. Place the dosimeters in the prepared charging dock. Battery charging status bars will be displayed on the dosimeter screens; five amber LEDs will blink during charging. Full charge is indicated by five green blinking LEDs.
   Notes: *When batteries are fully charged, the LCDs (displays) will shut down. The green LEDs will continue blinking while the dosimeters remain in the charging dock.*

   Do not keep dosimeters in charging dock during transport.

> When the dosimeter is fully charged, SKC recommends removing it from the charging dock and unplugging the charging dock to prolong battery life and conserve energy.

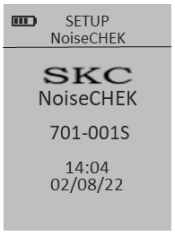
Notes and Cautions

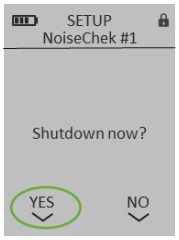
- The battery used in this device may present a risk of fire or explosion when heated above 212 F (100 C) or incinerated. Battery can be replaced only by SKC authorized service center.
- When transporting dosimeters, ensure that they are placed in their designated areas inside the case, not on the charging dock.
- Do not apply stickers to the back of the dosimeter because this can cause connectivity issues while the dosimeter is in the charging dock.
- When the dosimeter is fully charged, SKC recommends removing it from the charging dock and unplugging the charging dock to prolong battery life and conserve energy.

Turning Power On/Off

Turn on: Press and hold the green button (*Figure 1*). The Home (Setup) screen will be displayed (*see below left)*.

Turn off: From the Home or any virtual dosimeter Setup or Standby screen, press and hold the red button (*Figure 1*). Select YES (press green button) to confirm shutdown *(see below right)*. ***Note**: After 5 minutes of inactivity, NoiseCHEK will shut down automatically.*





Determining Battery Charge Status

The battery status icon is always displayed at the top left on the screen. *See the table below to determine the battery charge.*

Battery Status Icon	Battery Charge
	Full charge, approximately 75 to 100% One to three bars will be displayed when charge is less than full but not low battery.
	Approximately 50 to 75%
	Approximately 25 to 50%
	Approximately 5 to 25%
	Low battery — shutdown is imminent. ***Note**: All data will be stored in History.*

Determining Dosimeter Status — LEDs

LEDs (visible through the windscreen LED collar) indicate charging and operation status and activity; exposure level; and, for applicable models, BLE connection. *See the table below*.

LED Description/Activity	Status
Amber, flashing continuously (device seated in charging dock)	Not fully charged
Green, flashing continuously (device seated in charging dock)	Fully charged
Green, single flashing approx. every 3 seconds	Sample run in progress; accumulating data
Green, double flashing approx. every 3 seconds	Sample run paused
Amber flashing, alternating with green	Set % dose reached (level set in DataTrac dB Software)
White (lower right) flashing intermittently (***All models except Cat. No. 701-001NBVAS and 701-001NBVASANZ)***	Voice note present
*Blue (top), flashing intermittently (**Cat. Nos. 701-001, 701-001S, and 701-001SANZ only**)*	Communicating via BLE (with SKC SmartWave dB app)

Using the Buttons

See the table below for how to use the dosimeter buttons (*Figure 1*) to operate the device, navigate screens, and select screen prompts.

Button	Functions
Green	• Turn on device. *See Turning Power On/Off.* • Start run, pause run, and resume run. • Select prompts YES, OK, SELECT, HOME, RESUME, LIST, and digit in PIN for Lock feature. • Undim screen.
Red	• Turn off device (from Home, Setup, or Standby screens only). *See Turning Power On/Off*. • Stop sample run. • Select prompts NO, HOME, DELETE, and digit in PIN for Lock feature. • Undim screen.
Previous/Next (left/right arrows)	• From Home screen, Previous button scrolls to Info screen. • Scroll backwards/forwards through virtual dosimeter screens • Scroll up/down through History list. • Select digits in PIN for Lock feature.
H (History)	• View selected sample run history. • Access History list. • Return to Home screen after sample run has ended or from a sample run history.
V (Voice Note)*	• Record voice note during sample runs • Access voice note recording held in memory to delete it.

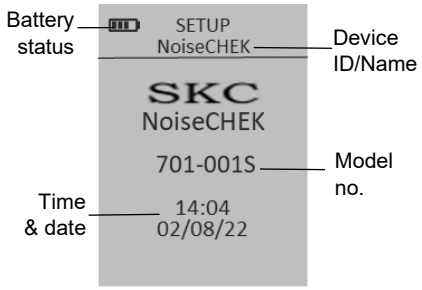
**Disabled in Cat. No. 701-001NBVAS and 701-001NBVASANZ*

Interpreting and Navigating Screen Displays

The screen displays are intuitive with messages and selection prompts to guide you through each operation. Icons at the top right and left corners indicate battery and operation status, activated features, and alerts (*see Status Icons*). ***Note**: After approximately 30 seconds of inactivity, the screen will dim automatically. To undim, press the green button or red button*.

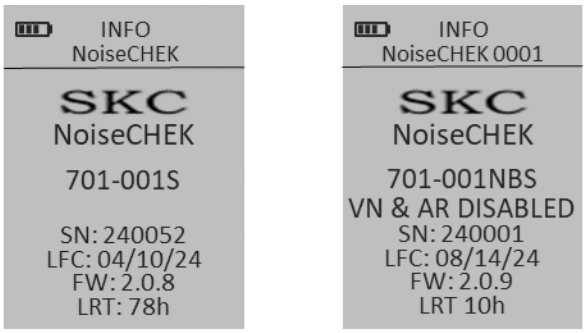
Home Screen

When you turn on the noise dosimeter, the Home Setup screen (Home screen) appears (*see below).* From the Home screen, access device info, calibrate, scroll through virtual dosimeters, access History and Voice Note, and turn off the device.



Info Screen

From the Home screen, press the Previous button to go to the Info screen (*below left*), which displays the dosimeter model number, serial number (SN), last factory calibration (LFC)* date, firmware (FW) version, and lifetime run time (LRT). ***Note:*** *The Info screen for the Cat. No. 701-001NBVAS and 701-001NBVASANZ models (see example at below right) indicates that voice note and audio recording (VN & AR) capabilities are disabled; it will display model number 701-001NBS.*



**LFC won't be displayed on the dosimeters shipped before release of firmware v2.0.0 unless they were returned to SKC for annual calibration.*

Virtual Dosimeter Screens (Setup and Standby)

Each programmed virtual dosimeter has a Setup screen with the following parameters set to the particular standard, e.g., OSHA HC or PEL, ACGIH, MSHA HC or PEL, or custom:

- Exchange (Exchange rate)
- Threshold
- Criterion (Criterion level)
- Response
- Freq weight (Frequency weight)

Octave bandwidth screens (Standby) are displayed if enabled in DataTrac dB Software. To view the parameter and bandwidth screens, use the Previous/Next buttons to scroll through the virtual dosimeter Setup and Standby screens. ***Note****: For more details on enabling octave bandwidths, see Using DataTrac dB Software.*



OSHA HC Measurement view screens

History Screens

Press the History button (*Figure 1*) to access sample data. *See Reviewing Data*.

Status Icons

Icons	Indication
	Battery charge level (*see Determining Battery Charge Status*)
	Sample running
	Sample run paused
	Lock feature activated
	Overload: % Dose set in DataTrac dB Software reached during sample run

Changing Time/Date

Depending on model, you can change the time/date when moving between time zones in one or two ways:

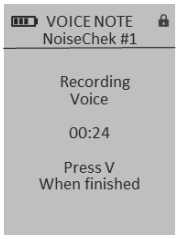
1. **Cat. Nos. 701-001, 701-001S, 701-001SANZ only**: Connect to the dosimeter(s) via the SKC SmartWave dB mobile app. The time/date will automatically be adjusted to the time/date on your phone.
2. Use DataTrac dB Software to adjust the time/date and upload the setting from the PC to the dosimeter(s). *See DataTrac dB Software for NoiseCHEK User Manual*.

Recording/Playing a Voice Note

This feature is disabled in Cat. No. 701-001NBVAS and 701-001NBVASANZ models.

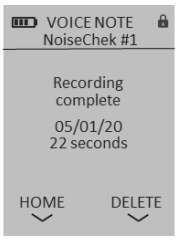
Record a voice note to identify details like the kind of noise being sampled, location of sampling, wearer's job description, and other relevant items. You can upload and play back a voice note on a PC using DataTrac dB Software. Only one voice note can be held in NoiseCHEK, and it must be deleted or uploaded to a PC before another note can be recorded.

***Note**: Voice Note can be disabled in DataTrac dB software. See DataTrac dB Software for NoiseCHEK User Manual.*

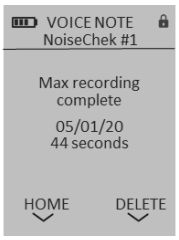


1. From the Home screen, press and hold the Voice button to begin recording a note. ***Note**: Maximum recording time is approximately 44 seconds.*
2. End recording by pressing the Voice button again (otherwise it will be ended automatically when recording time exceeds maximum limit). *See below*.
    a. **To save the recording**, select Home (press green button). The white LED will continue to flash intermittently (when dosimeter is powered on but not running) to indicate that a recording is present. If you try to record another note in the meantime, you will see the message that a recording is present. *See Voice Note Status*.

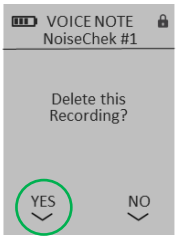
b. **To delete the recording**, select Delete (press red button). Select Yes (press green button) to confirm; the message that the recording has been deleted will appear. The white LED will stop flashing. *See Voice Note Status.*



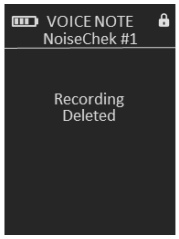
Recording ended manually



Recording stopped automatically



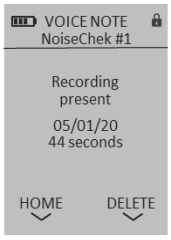
Confirm deletion



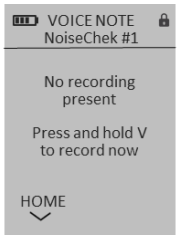
Recording deleted

3. To play back a voice note, upload data to your PC via DataTrac dB Software. *See DataTrac dB Software for NoiseCHEK User Manual.*

Voice Note Status



Recording saved

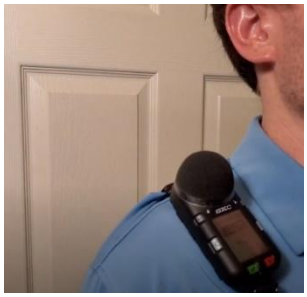


Recording deleted

Attaching NoiseCHEK to a Worker

Attach the NoiseCHEK to the worker's shoulder **after** the unit has been turned on and calibrated and **before** the sample run is started.

1. Choose the shoulder facing the highest level or source of noise. Place the unit on the top of that shoulder with the microphone as high as possible so it can collect maximum sound. *See photo at right*. Turn the wearer's head toward the dosimeter to make sure the chin does not touch the dosimeter.
2. Fasten the clothing clips securely to the shirt.
3. During sampling, keep clothing from touching the windscreen to avoid contaminating results.



See the demonstration here*:* Ideal Placement of the SKC NoiseCHEK Personal Dosimeter.

Removing/Reinstalling Windscreen

Remove windscreen: Hold the windscreen collar (with arrow on collar facing you), turn it to the unlock indicator on the dosimeter. Lift the windscreen from the microphone.



Reinstall windscreen: Seat the windscreen over the microphone (with arrow on collar facing you), turn it to the lock indicator on the dosimeter to secure it. ***Note****: You should feel/hear a click as it is locked in place*.



OPERATION

Performing a Sample Run

- *Charge the battery completely before operating the noise dosimeter.*
- *Calibration is necessary **before and after** every sampling operation.*
- *AcoustiCHEK Class 2 Calibrator Cat. No. 703-002 is required for calibration.*
- *See Status Icons table for indicators that appear on screen during operation.*

Calibrate

- *When installing the AcoustiCHEK calibrator on the noise dosimeter microphone, rotate **it clockwise only**. Rotating it counterclockwise can loosen the microphone and cause calibration to fail.*

See Figure 3.

1. Turn on NoiseCHEK.
2. Remove the windscreen from the microphone. *See Removing/Reinstalling the Windscreen.*
3. Install the AcoustiCHEK calibrator on the microphone by gently pushing the calibration aperture onto the microphone and rotating **clockwise only** until it is firmly attached.
4. Turn on the calibrator by pressing the Power key.
5. Press the Level key to set calibrator to 114 dB (*see calibrator quick guide*). After a 5-second countdown is displayed on the screen, calibration will take place.
6. When calibration is complete (PASSED), remove the calibrator from the microphone (rotating **clockwise only**) and/or turn off the calibrator.
7. Select OK (press green button) on the NoiseCHEK, which returns you to the Home screen.
8. Reinstall the windscreen. *See Removing/Reinstalling the Windscreen.*
9. You are ready to sample. *See Sample*.

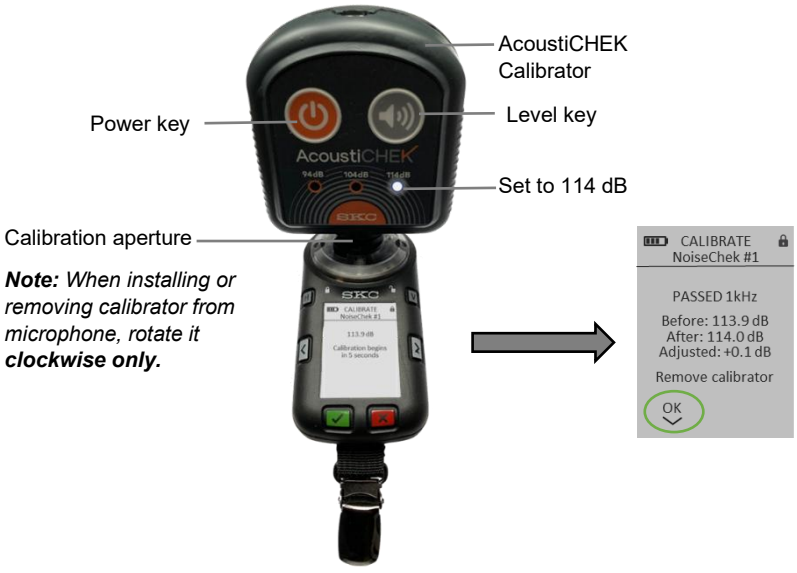


Figure 3. Calibration Train and Display

Sample

- *To schedule a timed sample run, see DataTrac dB Software for NoiseCHEK User Manual.*
- *For details about Secure Lock and Auto Lock, see Lock Feature.*

1. After successful calibration, from the Home screen press the green button. *See below*. ***Note****: Attach the dosimeter to the worker in Step 2* ***before*** *selecting YES to begin sampling.*
2. Attach NoiseCHEK on worker's shoulder. *See Attaching Noise Dosimeter on a Worker.*
3. Select YES (press green button) to begin sampling. The run indicator will appear at the top right of the screen (*see below right*).



Start sampling.



Confirm start sampling.



Sample running

a. **To pause sampling,** press and hold green button. Select Yes (press green button) to confirm. The pause indicator appears at top right on the screen. *See below*. ***Note****: If Auto Lock is enabled, you will be prompted to enter the four-digit PIN using the buttons on the dosimeter to select the PIN digits*. *See Lock Feature.* NoiseCHEK will remain powered on but sampling will stop (timer will not increment further) and data will stop accumulating.



While sample is running, press and hold green button.



Confirm pause.



Enter PIN if required.



Sample paused

b. **To resume sampling**, press and hold green button and confirm by selecting YES (press green button). *See below.* The timer will continue where it left off, and data will continue to accumulate.



Resume sampling.



Confirm resume sampling.

4. Stop sampling by pressing and holding the red button. Select YES (press green button) to confirm. ***Note**: If Auto Lock is enabled, you will be prompted to enter the four-digit PIN. See Lock Feature*.



Stop sample run.



Enter PIN if required.



Confirm stop.

5. Remove the device from the worker's shoulder. Review sample history or return to Home screen by pressing the red button or History button.
6. Proceed to Post-calibrate.

Post-calibrate

- *Each time NoiseCHEK is calibrated, it displays the calibration values obtained "Before" and "After" calibration and stores them. For post-calibration, use the "Before" value.*

1. *See Calibrate, Steps 2 through 6.*
2. Review data. *See Reviewing Data (History*).

Lock Feature

The Lock feature is activated in DataTrac dB software and enables connection to the mobile app for BLE models (Secure Lock) and lockout while the dosimeter is running (Auto Lock).

When this feature is activated, the lock icon appears in the upper right corner of the dosimeter screen.

Cat. Nos. 701-001, 701-001S, and 701-001SANZ:

Secure Lock: A four-digit PIN (using numbers 1, 2, 3, 4) designated in DataTrac dB software is required to connect to the mobile app. Secure Lock must be activated to enable Auto Lock (*see below*). ***Note****: These models are shipped with Secure Lock activated and designated PIN 1234.*

Auto Lock: When this is activated, the PIN designated for Secure Lock is required to **stop** or **pause** sampling but **not** to start the device.

Cat. Nos. 701-001NB, 701-001NBS, 701-001NBVAS, and 701-001NBVASANZ:

Secure Lock is not available.

Auto Lock: When this is activated, a four-digit PIN (using numbers 1, 2, 3, 4) designated in DataTrac dB software is required to **stop or pause** sampling but **not** to start the device.

Reviewing Data (History)

The History (data) view (*below left*) appears after a sample run ends (after post-calibration) and when you press the History button from the Home screen.

1. View the run data.
    a. Use Previous/Next buttons to scroll through and view the run data for each programmed virtual dosimeter. After viewing the last virtual dosimeter data, you will be prompted to go to the History list or to return to the Home screen (*see below*). Select LIST (press green button) to go to the History list.
    OR
    b. From the History view of any virtual dosimeter, press the green button.
2. Scroll to the desired sample run and choose SELECT (press green button).



View sample run data.



Select list of sample runs.



Select run from list.

You can review data in History in a few ways: on the NoiseCHEK device itself; on your PC using DataTrac dB software (*see Using DataTrac dB Software*); and, if using Cat. No. 701-001, 701-001S, or 701-001SANZ, on your mobile device using the SKC SmartWave dB mobile app. ***Note**: Use of the mobile app with intrinsically safe models may require an intrinsically safe mobile device.*

Upload and print summary reports from PC or mobile app. Upload a more detailed report (compliance + time history) from your PC. ***Note*: *All the data needed to comply with OSHA is in the summary report.***

Using DataTrac dB Software

NoiseCHEK communicates with a PC via SKC Charging Dock 701-002 or 701-003 and DataTrac dB Software (*see Install DataTrac dB Software*). With DataTrac dB software, you can:

- Program and modify presets in your dosimeter setup, including up to four virtual dosimeters, octave band display, secure lock (**Cat. Nos. 701-001, 701-001S, and 701-001SANZ only**), auto lock, and more (*see Setup in Figure 4*).
- Schedule sample runs.
- Download data for viewing and generating and sharing summary and compliance reports.
- Share data with DataTrac dB on other PCs
- Listen to voice recordings
- Review notes

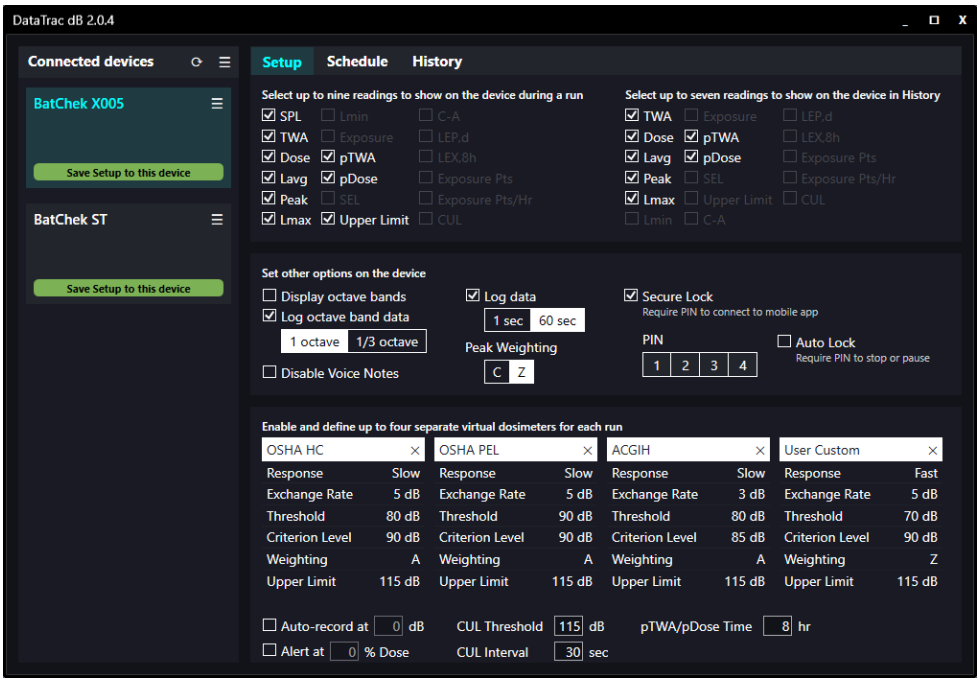


Figure 4. DataTrac dB Setup Screen

When all four virtual dosimeters and octave band data logging are enabled and log data is set to 1 second, it will take approximately 3 hours (1/3 octave) or 1 hour (1 octave) to download data accumulated during an 8-hour run. Select log octave band data and 1 second log interval only if you need and intend to use this kind of data.

Install DataTrac dB Software

The NoiseCHEK noise dosimeter communicates with a PC via USB cable and charging dock (1-unit or 5-unit) and DataTrac dB Software (*Figure 5*). Connect up to five NoiseCHEK dosimeters in the 5-unit charging dock to upload settings. ***Note***: *Do not apply stickers to the back of the dosimeter because this can cause connectivity issues while the dosimeter is in the charging dock.*

1. Connect charging dock to PC using included USB cable.
2. Download from https://skcinc.com/media/catalog/datatrac/DataTracdB/Setup.exe or copy from USB drive “setup.exe” and install DataTrac dB as instructed. DataTrac dB will launch automatically.

   The DataTrac dB Installer requires administrator privileges to install properly.
3. Place noise dosimeter(s) in the charging dock to complete the communication train (*Figure 5*). ***Note****: DataTrac dB will only detect dosimeters that are properly seated in the connected charging dock.*



Figure 5. Communication Train

To program and upload settings to your noise dosimeters and download run data to your PC, see the DataTrac dB Software for NoiseCHEK User Manual.

ACCESSORIES/REPLACEMENT PARTS

Accessories	**Cat. No.**
1-unit Charging Dock for charging and connection to PC, includes power supply **100-240 V**	701-002
5-unit Charging Dock for charging and connection to PC, includes power supply **100-240 V**	701-003
AcoustiCHEK Calibrator, Class 2, for 1/2-inch microphones, includes AA batteries and Certificate of Manufacturer Calibration	703-002

Replacement Parts	**Cat. No.**
Replacement Power Supply for Charging Docks, 12 V DC, with interchangeable plugs **100-240 V**	220-600
Replacement Windscreen	701-004
Replacement Microphone, ½-inch	701-005
Replacement USB Cable, for NoiseCHEK, connects dosimeter in charging dock to PC for use with DataTrac dB software and allows dosimeter to be charged from PC or USB-compatible power outlet.	P71453
Hard-sided Carry Cases, foam-filled, airtight, watertight, dustproof, crushproof, accommodate indicated number of NoiseCHEKs and accessories	
Single Kit Case	224-916
5-pack Kit Case	224-917

Li-Ion Battery Testing and Shipment

Rechargeable lithium-ion (Li-Ion) polymer batteries for use with SKC noise dosimeters have been tested in accordance with the UN Manual and are proven to meet requirements of each test in the *UN Manual of Tests and Criteria*, Part III, subsection 38.3. The batteries are rated below 100 watt-hours (Wh).

NoiseCHEK noise dosimeters contain Li-Ion polymer batteries and are subject to special shipping regulations. Consult with your carrier for more information on Lithium Battery Shipping Regulations UN 3480 and UN 3481. Click here or visit the Knowledge Center at www.skcinc.com and search on lithium-ion to view the SKC requirements for packing and shipping lithium-ion batteries.

Use only SKC-approved parts to ensure reliable performance and to maintain the UL listing for intrinsic safety. Failure to do so voids any warranty.

SKC Limited Warranty and Return Policy

SKC products are subject to the SKC Limited Warranty and Return Policy, which provides SKC's sole liability and the buyer's exclusive remedy. To view the complete SKC Limited Warranty and Return Policy, go to www.skcinc.com/warranty-information.

APPENDIX: PERFORMANCE PROFILE

Standards	ANSI S1.25:1991 IEC 61252:2017
Microphone	½ in, Type 2, ACO7052
Noise Measurement Range	70 to 140 dB, peak up to 143 dB
Weighting	A, C, and Z; peak C or Z
Response Time	Fast and slow
Exchange Rate	3, 4, or 5 dB
Virtual Dosimeters	Up to 4, programmable, OSHA HC, OSHA PEL, MSHA HC, MSHA PEL, ACGIH, or custom
Octave Filters	1/1 or 1/3 octave bands
Run Time	40+ hours
Data Logging	Every 1 sec or 60 sec
Data Storage	40 to 4000+ hours depending on configuration
Voice Note	**All models *except* Cat. No. 701-001NBVAS and 701-001NBVASANZ:** Up to 44 sec; can be disabled in other models
Audio Recording	**All models *except* Cat. No. 701-001NBVAS and 701-001NBVASANZ:** Audio recording of event when sound pressure exceeds set value; can be disabled in other models
Status LEDs	Green, amber, blue, and white LEDs provide visual indication of dosimeter status from a distance
Security	**Cat. Nos. 701-001, 701-001S, and 01-001SANZ only:** User-selectable 4-digit PIN can be activated to secure access from mobile device **All models**: User-selectable 4-digit PNs can be activated to stop/pause the dosimeter
Connectivity	USB to PC with DataTrac dB Software **Cat. Nos. 701-001, 701-001S, and 701-001SANZ only:** BLE to mobile device with SKC SmartWave dB app *(use of mobile app with intrinsically safe model may require an intrinsically safe mobile device)*
Battery	Li-Ion* polymer rechargeable battery, 3.7 V, 1200 mAh
Charge Time	6 to 8 hours
Charging Method	Charging dock, 100-240 Vac, 12 Vdc, 5 V USB
Display	Continuously on, TFT monochrome, front lit 1.8 in (45.72 mm), 9 lines of user-selectable data for each virtual dosimeter including: SPL, Lavg, Leq, Dose, Peak, TWA, projected dose and TWA, and exposure
Operating Temp. Range	32 to 113 F (0 to 45 C)
Humidity	Up to 95%, non-condensing
Dimensions	3.9 x 1.9 x 2 in (99 x 48 x 51 mm)
Weight	4.1 oz (117 gm)
RoHS	Compliant
Certifications/Markings	**For models 701-001S, 701-001NBS, 701-001NBVAS:** Class I, Groups A, B, C, D; Class II, Groups E, F, G; Class III, T4; Class I, Zone 0, AEx ia IIC T4 Ga; Ex ia IIC T4 Ga; Ex ia I Ma -20°C ≤ T_a ≤ 45°C Ⓔx II 1G Ex ia IIC T4 Ga, I M1 Ex ia I Ma; IECEx UL 21.0026; DEMKO 21ATEX 2537; UL22UKEX2456 CE 0539 UKCA 0843
	For models 701-001SANZ, 701-001NBSANZ, 701-001NBVASANZ: ANZEx 26.2001 Ex ia I Ma Ex ia IIC T4 Ga -20 °C ≤ Ta ≤ 45 °C

**NoiseCHEK dosimeters are shipped with Li-Ion batteries and are subject to special shipping regulations.*