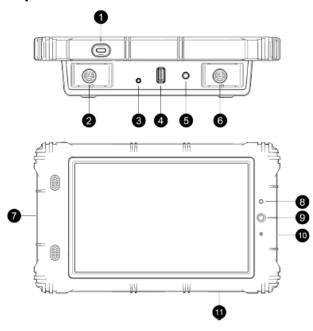
# SPARK LXi2 Datalogger (PS-3600B)

# Introduction

The SPARK LXi2 is a combination datalogging device and interface with a ruggedized cover. It blends PASCO probeware with PASCO data collection and analysis software programs. The SPARK LXi2 features two PASPORT input ports, as well as ports for the included temperature probe and voltage probe.

# Components



### 1. Power button

Press and hold to turn the device on or off.

### 2. PASPORT input 1

Use this port to connect a PASPORT sensor.

# 3. Voltage input port

Use this port to connect the included Voltage Probe.

# 4. USB-A communications port

Use this port to connect a USB device, such as a USB flash drive.

# 5. Temperature Probe port

Use this port to connect the included Temperature Probe.

### 6. PASPORT input 2

Use this port to connect a second PASPORT sensor.

### 7. USB-C charging port

Connect the included USB charger to charge the battery.

# 8. Battery Status LED

This light indicates the charging status of the battery. The light is yellow when the LXi2 is charging, turns green when fully charged, and blinks red when low on power.

### 9. Camera

Use the camera to record images in SPARKvue.

### 10. Headphone jacks

# 11. Volume control

### Included equipment:

- SPARK LXi2 Datalogger
- Voltage Probe
- Fast Response Temperature Probe
- USB charger with USB cable

# Charge the battery

Charge the SPARK LXi2's battery overnight to ensure power for a full day's use. To charge the battery, connect the charging port to the included USB charger via the USB cable. Fully power off the LXi2 to minimize power loss between use, as the device will still lose some power while in sleep mode.

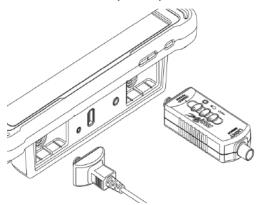
# **Connect sensors**

### Wireless

Connect to the device wirelessly through the SPARKvue or MatchGraph apps.

### **PASPORT**

Plug a PASPORT Sensor into one of the PASPORT Input Ports. The software will automatically identify the sensor.



# Voltage and temperature ports

Plug the Voltage Probe into the voltage input port. Plug the temperature probe into the Temperature Probe port. SPARKvue will automatically identify the sensors.

# SPARK LXi2 apps

The SPARK LXi2 comes with the following preinstalled apps:

### **SPARKvue**

Use SPARKvue to collect and analyze data from Wireless and PASPORT sensors connected to the SPARK LXi2.

### MatchGraph

Use a Motion Sensor or a Smart Cart with MatchGraph to help engage students as they interpret position and velocity graphs by making a game of it.

# **Spectrometry**

Use Spectrometry with PASCO spectrometers to measure absorbance, transmittance, intensity, and fluorescence.



### **Periodic Table**

A period table that can be used for quick reference.

### Calculato

A standard scientific calculator.

### Files

Access the files contained on your SPARK LXi2 datalogger.

### Set Up

Use this app to access various settings, including WiFi, Bluetooth, display, and sound.

### SPARK LXi Help

Use this help guide to learn more about the features and applications contained on the SPARK LXi2 datalogger.

# **Technical support**

Need more help? Our knowledgeable and friendly Technical Support staff is ready to answer your questions or walk you through any issues.

Chone 1-800-772-8700 x1004 (USA)

+1 916 462 8384 (outside USA)

You can also consult the PASCO Video Library at <a href="https://www.pasco.com/resources/video">www.pasco.com/resources/video</a> for additional help.

### Warrantv

For a description of the product warranty, see the Warranty and Returns page at www.pasco.com/legal.

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### Product end-of-life disposal

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This electronic product is subject to disposal and recycling regulations that vary by country and region. It is your responsibility to recycle your electronic equipment per your local environmental laws and regulations to ensure that it will be recycled in a manner that protects human health and

the environment. To find out where you can drop off your waste equipment for recycling, please contact your local waste recycle or disposal service, or the place where you purchased the product. The European Union WEEE (Waste Electronic and Electrical Equipment) symbol on the product or its packaging indicates that this product must not be disposed of in a standard waste container.

# **Battery disposal**

Batteries contain chemicals that, if released, may affect the environment and human health. Batteries should be collected separately for recycling and recycled at a local hazardous material disposal location adhering to your country and local government regulations. To find out where you can drop off your waste battery for recycling, please contact your local waste disposal service, or the product representative. The battery used in this product is marked with the European Union symbol for waste batteries to indicate the need for the separate collection and recycling of batteries.

### **CE** statement

This device has been tested and found to comply with the essential requirements and other relevant provisions of the applicable EU Directives.

### **FCC** statement

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE 3: Operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems. RF exposure information and statement . this device meets government requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health. The SAR limit of USA(FCC) is 1.6W/Kg averaged. Has also been tested against this SAR limit. SAR information on this and other pad can be viewed on-line at

www.fcc.gov/oet/ea/fccid/. Please use the device FCC ID number for search. This device was tested simulation typical 0 mm to body. To maintain compliance with FCC RF exposure requirements, the use of belt clips, holsters and similar accessories should not contain metallic components in its assembly, the use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

### **ISED Canada compliance statement**

This device complies with ISED Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. Operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems. RF exposure information and statement . this equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health. The SAR limit of IC is 1.6W/Kg averaged. Device types: Has also been tested against this SAR limit. This device was tested simulation typical 0 mm to body. To maintain compliance with FCC RF exposure requirements, the use of belt clips, holsters and similar accessories should not contain metallic components in its assembly, the use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided. The highest reported SAR value for body conditions is 1.201W/Kg respectively.

Le présent appareil est conforme aux CNR d'ISDE Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

La bande 5150–5250 MHz est réservée uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

Cet équipement est conforme aux limites d'exposition au rayonnement du CNR-102 de l'IC établies pour un environnement non contrôlé. Les lignes directrices sont fondées sur des normes qui ont été élaborées par des organisations scientifiques indépendantes au moyen d'une évaluation périodique et approfondie des études scientifiques. Les normes comprennent une marge de sécurité substantielle conçue pour assurer la sécurité de toutes les personnes, indépendamment de leur âge ou de leur état de santé. La limite SAR de Cl est de 1.6 W/Kg en moyenne. a également été testé par rapport à cette limite SAR. Cet appareil a été testé simulation typique 0 mm au corps. Pour maintenir la conformité aux exigences d'exposition aux RF de la FCC, l'utilisation de pinces à courroie, d'étuis et d'accessoires similaires ne devrait pas contenir de composants métalliques dans son assemblage, l'utilisation d'accessoires qui ne satisfont pas à ces exigences peut ne pas être conforme aux exigences d'exposition aux RF de la FCC et devrait être évitée. La valeur SAR déclarée la plus élevée pour les conditions corporelles est de 1,201 W / Kg respectivement.

