



PAKSENSE™

PakSense Ultra Wireless Label



TABLE OF CONTENTS

INTRODUCTION	3
PAKSENSE ULTRA WIRELESS LABEL	3
UNDERSTANDING THE PAKSENSE ULTRA WIRELESS LABEL	3
ACTIVATING THE PAKSENSE ULTRA WIRELESS LABEL	5
<i>Deactivating Wireless Transmission</i>	5
<i>Enabling Wireless Transmission</i>	5
LABEL PLACEMENT SCENARIOS	6

PakSense Ultra Wireless Label

FCC Regulatory statements

PakSense Ultra Wireless Label Model: PSUWL01F

FCC ID: WPEPAKS-1A

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the 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:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician.

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
2. This device must accept any interference received, including interference that may cause undesired operation.

FCC Warning

Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under FCC Rules.

Radio Frequency Exposure

This equipment has been evaluated in accordance with the FCC bulletin 56, "Hazards of radio frequency and electromagnetic fields", and bulletin 65, "Human exposure to radio frequency and electromagnetic fields". Safe operation in an uncontrolled environment will result if a distance greater than or equal to 20 cm. from the device is maintained.

PakSense Ultra Wireless Label

Introduction

Thank you for choosing the PakSense Ultra Wireless temperature monitoring solution for your time and temperature monitoring needs. By providing innovative time and temperature monitoring solutions, PakSense helps solve costly distribution issues and enables customers to make better decisions about product quality and safety.

There are three components to the PakSense Ultra Wireless solution including the PakSense Ultra Wireless Label, the PakSense Ultra Wireless Reader and the PakSense Ultra Software. This manual provides use instructions for these components.

PakSense Ultra Wireless Label

The PakSense Ultra Wireless Label provides accurate time and temperature readings of a product's environment during the entire shipping process. The label takes a temperature reading every 1 minute and calculates a 5-minute average. The 5-minute average is written to the memory contained in the label at regular intervals, according to its programming.

Labels are pre-programmed according to acceptable temperature range specifications by PakSense and can be customized for each product application.

Ultra Wireless Labels can be read in two ways; with the PakSense Ultra Wireless Reader or PakSense Ultra Contact Reader. Details on downloading label data is reviewed on page seven of this manual.

Understanding the PakSense Ultra Wireless Label

The PakSense Ultra Wireless Label has a number of visual markers to indicate the label functions.



1. "This End Up" Arrow - this arrow indicates the correct orientation of the label for optimal data transmission.
2. Duration - each standard label is programmed to record for 6, 15, or 30 days.
3. Data Download Point - the circles indicate the proper points where the PakSense Ultra Contact Reader probe can pierce the label to download information. The Ultra Contact Reader provides a secondary method to download data.
4. LEDs/Visual Indicators - provide confirmation in the form of a light sequence when the label is started or when wireless transmissions are turned on and off. LEDs will also indicate if there has been a temperature breach above or below pre-programmed ranges. An ongoing green flash indicates product has always been in range. An ongoing amber flash indicates there has been a temperature breach.
5. Label Reorder Number - this is a unique number that customers use to reorder additional labels with the same profile.
6. Serial Number - each label has a unique serial number that differentiates it from other PakSense Ultra Wireless Labels. When information is downloaded from the label, this serial number will appear as the name of the saved data file and will also appear at the top of the graph.
7. Push Button to Activate/Deactivate - users press the button on the lower right corner of the label for four seconds to start time and temperature monitoring and activate wireless transmission. Labels should be started when the product is ready for shipment. Wireless transmissions can be activated and deactivated afterwards by pressing the button for two seconds.
8. Directions for Use - quick start instructions are printed directly on the label.
9. Temperature Range - standard, pre-programmed temperature alert ranges.
10. Label Type - this description distinguishes between the Ultra Wireless and Ultra Contact Labels.

Note

Each label is sealed in a waterproof plastic pouch that is USDA approved for food contact and can be made a part of any HACCP system.

DO NOT REMOVE LABEL FROM PLASTIC POUCH.

Activating the PakSense Ultra Wireless Label

- Note the serial number of the label for recording on any necessary paperwork or shipping orders.
- Activate the label by pressing and holding on the red start button in the lower right-hand corner of the label for four seconds. The green and yellow LEDs will indicate the label is successfully started.
- Once the label has been started, time and temperature recording will begin. The time and temperature recording function cannot be disabled. The label will stop recording time and temperature readings when the memory on the label is completely full.
- Upon activation, wireless transmission is also enabled. If the label will be shipped on an aircraft, wireless transmission can be disabled by following the instructions below.
- Apply the label to product or product packaging.

Note

According to FAA guidelines, wireless transmission must be disabled before transportation aboard an aircraft.

Deactivating Wireless Transmission

1. To disable the wireless transmission, press and hold the start button in the lower right-hand corner of the label for two seconds.
2. The amber LEDs will flash twice to indicate wireless transmission is disabled.
3. At this point wireless transmission is disabled, and the label is safe for shipping on an aircraft.

Enabling Wireless Transmission

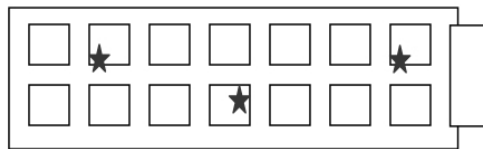
1. Wireless transmission can be enabled by pressing and holding the start button for two seconds.

2. The green LED will flash twice to indicate wireless transmission is enabled.
3. At this point, wireless transmission is enabled, and the label can be read using the PakSense Ultra Wireless Reader.

Label Placement Scenarios

The form factor of the PakSense Ultra Wireless Label promotes its use in a variety of scenarios including at the pallet, carton, product and container level. Please note that the label should always be placed in the “up” position, as indicated by the arrow on the label graphic.

1. Pallet Level - Many customers apply PakSense Ultra Wireless Labels to the side of a pallet. PakSense provides signage and clear plastic pouching to facilitate locating labels on pallets at the receiving end as depicted in the photo to the right.
2. Carton Level - Many customers with high-value product where temperature control is critical, such as pharmaceuticals, may choose to use PakSense Ultra Wireless Labels on each individual carton.
3. Product Level - Because PakSense Ultra Wireless Labels are sealed in food-grade packaging, they can also be placed in or laid directly on top of product.
4. Container Mapping Scenario - Many customers place several PakSense Ultra Wireless Labels within a load. This promotes broader sampling and provides more detailed information on the temperature fluctuations experienced within a container.



In order to facilitate finding PakSense temperature monitoring labels, it is recommended that placement of labels be clearly flagged on the outside of packaging. PakSense can provide customers with “Find It” indicators on request.

Temperature Monitoring

Contact your supervisor

PakSense in Progress

➔

Attach PakSense Label Here or

PakSense Label Inside this Carton

Label #: _____

Date: _____ Time: _____

PO: _____ SO: _____

Destination: _____