



- **Flat, waterproof temperature recorder**
- **No readers required, auto PDF file generation**
- **Item/Carton/Pallet level monitoring**
- **Preprogrammed alert ranges**
- **Instant LED alert notification**
- **Surface reads**
- **21 CFR Compliant**
- **NIST calibrated**
- **Recyclable**
- **Uploads to 3rd party databases**

BIOmed XpressPDF™ Label

PakSense XpressPDF Labels monitor time and temperature of vaccines, pharmaceuticals, biologics, and other perishable products during distribution and storage. About the size of a sugar packet, labels are flat and feature an integrated USB connection point which can be plugged directly into the USB port of a computer. Once connected, the label automatically generates a PDF file containing complete time and temperature history, including graphs and summary data. XpressPDF Labels eliminate the need for reading devices and download software and are optimal in situations that require fully independent operation. This includes clinical trials materials transport, samples, exports, and “last mile” distribution applications.

A New Class of Temperature Recorder

XpressPDF Labels feature an innovative temperature sensor that enables them to take a surface read of the object to which they are attached. This provides a closer approximation of actual product temperature versus the general ambient readings provided by bulkier recorders. Labels sample temperature every minute for highly accurate temperature reads and are encased in waterproof packaging. Each label sensor is calibrated to NIST standards during manufacturing and is shipped with a certificate of validation.

Easy to Interpret

XpressPDF Labels provide temperature status information in two ways. A green light emitting diode (LED) on the label will flash if temperature has remained within specification. Conversely, amber LEDs will flash if a temperature breach has occurred. LED indicators are useful as they provide quick visual indication of product disposition. To download historical data collected by the label, users simply plug the label into the USB port of a computer. A PDF file is automatically generated containing a temperature graph, summary statistics, and detailed information on any alert excursion periods.

Specifications

- Operating temperature range:
-30°C to 60°C (-22°F TO 140°F)
- t Typical Temperature Accuracy:
Operating Temperature
-10°C to 30°C (14°F to 86°F): ±0.5°C (0.9°F)
Operating Temperature
30°C to 60°C (86°F to 140°F): ±0.7°C (1.26°F)
Operating Temperature
-30°C to -10°C (-22°F to 14°F): ±0.7°C (1.26°F)
- t Time Accuracy: ± 1 hour over a one year
time period
- t Shelf & Use Life Minimum: Combined shelf
and use life is 12 months
- t In-use time: Maximum in-use time of 100
days, depending on label programming
- t Temperature sampling frequency:
One minute
- t Memory: 8K EEPROM
- t Time: Time is based military time and
reconciled with UTC
- t Temperature Resolution: - .1°F/C
- t Size: 45mm width x 66mm length
unpouched; 61mm width X 85mm
length pouched
- t Calibration: Silicon-based temperature
sensor calibrated to NIST traceable
standards
- t Label Pouch: Waterproof, NEMA 4 rating
- t Start Up Delay:
Standard 30 minutes
or configurable 0 to
120 minutes
- t Alarm Display Data:
Light emitting diodes
signify temperature
excursion
- t Alarm
Configurations:
Consecutive or
cumulative alerts
- t Alert Ranges:
2°C to 8°C,
15°C to 25°C, or
customizable
- t Recycle Options:
Available via the PakSense GreenSense
program
- t Supported Operating Systems: XP, Vista and
Windows 7 (both 32bit and 64bit)
- t Compatible with PakSense Device Interface
SDK – enables XpressPDF Label data to be
uploaded to 3rd party database systems
- t Other: Installed Adobe Acrobat, Adobe
Reader or other application providing
PostScript Level2 or better support required
on downloading computer

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