BIOmed
XpressPDF™

PAKSENSE™

TU55C-BIO10 – 55 Day   01PF8R

START/MARK   OK   STOP

Cold Chain Simplicity

- Flat, waterproof temperature recorder
- No readers required, auto PDF file generation
- Embedded CSV text file lists temperatures
- Item/Carton/Pallet level monitoring
- Preprogrammed alert ranges
- Instant LED alert notification
- Surface reads
- 21 CFR Part 11 Compliant
- NIST calibrated
- Recyclable

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. A CSV (Comma Separated Values) text file embedded within the PDF lists time and temperature in five minute increments. XpressPDF Labels eliminate the need for reading devices and proprietary download software and are optimal for 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 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 traceability.
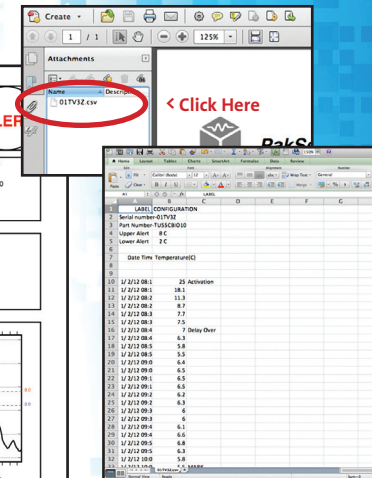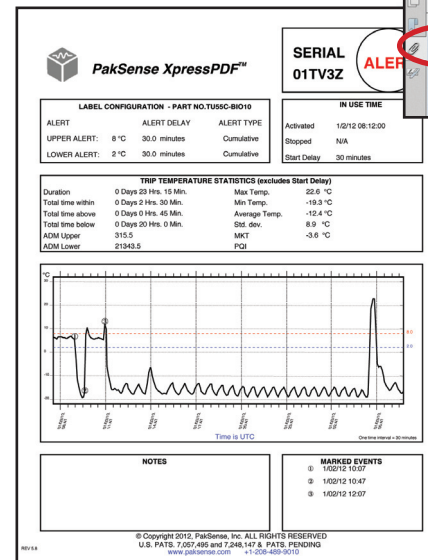
Easy to Interpret

XpressPDF Labels provide temperature status information in two ways. A green light emitting diode (LED) on the label will flash to indicate label is activated. 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 and summary statistics. An attached CSV file displays temperature readings.

Specifications

- **Operating temperature range:**
  -30°C to 60°C (-22°F TO 140°F)

- **Temperature Accuracy:**
  ±0.5°C (0.9°F)

- **Time Accuracy:** ± 1 hour over one year

- **Use Life & Shelf Life:**
  55 days – 9 month shelf life

- **Temperature sampling frequency:**
  One minute

- **Temperature recording frequency:**
  Five minutes

- **Memory:** 32K EEPROM

- **Time:** Time is based on military time
  and reconciled with UTC

- **Temperature Resolution:** ± .1°C

- **Size:** 45mm width x 66mm length
  unpouched; 61mm width X 85mm
  length pouched, weight 17 grams

- **Calibration:** Silicon-based temperature
  sensor calibrated to NIST traceable
  standards

- **Label Pouch:** Waterproof, IP 68,
  NEMA 6 rating

- **Start Up Delay:** Standard 30 minutes or
  configurable 0 to 1275 minutes

- **Alarm Display Data:** Light emitting diodes
  signify temperature excursion

- **Alarm Configurations:**
  Consecutive or cumulative alerts,
  standard 30 minutes or
  configurable 0 to 1275 minutes

- **Alert Ranges:**
  2°C to 8°C, 15°C to 25°C,
  customizable, or none
  (data logger)

- **Recycle Options:**
  Available via the PakSense
  GreenSense™ program

- **Regulatory:** FAA & FCC approved,
  EN 12830, CE, C-Tick, RoHS,
  Chinese RoHS, WEEE Compliant

- **Supported Operating Systems:**
  Professional versions of XP,
  Vista and Windows 7 (both 32bit and 64bit)

- **Compatible with PakSense Device Interface
  SDK –** enables XpressPDF Label data to be
  uploaded to 3rd party database systems

- **Other:** Installed Adobe Acrobat 9 or later,
  Adobe Reader 9 or later, or other application
  providing PostScript Level2 or better
  support required on downloading
  computer; USB 2.0 port required;
  downloadable to Excel format via PakSense
  Standard Edition (SE) Software

PDF Example

CSV Example

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