

# TEMPSEN



AMBIENT  
REFRIGERATED  
FROZEN  
DRY ICE  
LIQUID NITROGEN  
HUMIDITY

## COLD CHAIN DATA LOGGERS

### TEMPOD 30

USB PDF Temperature Data Logger  
P/N PD30

### TEMPOD 50X

USB PDF Temperature Data Logger  
with External NTC Probe  
P/N PD50X

### TEMPOD 100X

USB PDF Temperature Data Logger  
with External RTD Probe  
P/N PD100X

### TEMPOD 200X

USB PDF Temperature Data Logger  
with External RTD Probe  
P/N PD200X



| TECHNICAL DATA    | Tempod 30                                     | Tempod 50X                                    | Tempod 100X                        | Tempod 200X                                        |
|-------------------|-----------------------------------------------|-----------------------------------------------|------------------------------------|----------------------------------------------------|
| Type              | Multi-Use                                     | Multi-Use                                     | Multi-Use                          | Multi-Use                                          |
| Sensor            | Internal NTC                                  | External NTC Probe (1m)                       | External RTD Probe (1m)            | External RTD Probe (1m)                            |
| Measurement Range | -30°C...70°C                                  | -50°C...70°C                                  | -100°C...70°C                      | -200°C...70°C                                      |
| Accuracy          | ±0.3°C (-20°C...20°C)<br>±0.5°C (other range) | ±0.3°C (-20°C...20°C)<br>±0.5°C (other range) | ±0.5°C                             | ±0.5°C (-100°C...70°C)<br>±1.5°C (-200°C...-100°C) |
| Memory            | 28800 readings                                | 28800 readings                                | 28800 readings                     | 28800 readings                                     |
| Battery           | 3.0V lithium battery (Replaceable)            | 3.0V lithium battery (Replaceable)            | 3.0V lithium battery (Replaceable) | 3.0V lithium battery (Replaceable)                 |
| Battery Life      | 18 months                                     | 18 months                                     | 18 months                          | 18 months                                          |

| FEATURES                                    | Tempod 30 | Tempod 50X | Tempod 100X | Tempod 200X |
|---------------------------------------------|-----------|------------|-------------|-------------|
| Encrypted PDF report embedded with raw data | •         | •          | •           | •           |
| Multiple alarm ranges (5 ranges)            | •         | •          | •           | •           |
| Software-free configuration                 | •         | •          | •           | •           |
| USB 2.0 plug                                | •         | •          | •           | •           |
| Password protection                         | •         | •          | •           | •           |
| Compatible with TempCentre                  | •         | •          | •           | •           |
| NIST traceable 3-point calibration          | •         | •          | •           | •           |
| DO-160G compliant                           | •         | •          | •           | •           |
| IATA PI970 II compliant                     | •         | •          | •           | •           |

### TEMPOD 20XB

Bluetooth USB PDF  
Temperature Data Logger  
P/N PD20B

### TEMPOD 50XB

Bluetooth USB PDF  
Temperature Data Logger  
P/N PD50XB

### TEMPOD 100XB

Bluetooth USB PDF  
Temperature Data Logger  
P/N PD100XB

### TEMPOD 200XB

Bluetooth USB PDF  
Temperature Data Logger  
P/N PD200XB



| TECHNICAL DATA    | Tempod 20B                                    | Tempod 50XB                                   | Tempod 100XB                       | Tempod 200XB                                       |
|-------------------|-----------------------------------------------|-----------------------------------------------|------------------------------------|----------------------------------------------------|
| Type              | Multi-Use                                     | Multi-Use                                     | Multi-Use                          | Multi-Use                                          |
| Sensor            | Internal NTC                                  | External NTC Probe (1m)                       | External RTD Probe (1m)            | External RTD Probe (1m)                            |
| Measurement Range | -20°C...70°C                                  | -50°C...70°C                                  | -100°C...70°C                      | -200°C...70°C                                      |
| Accuracy          | ±0.3°C (-20°C...20°C)<br>±0.5°C (other range) | ±0.3°C (-20°C...20°C)<br>±0.5°C (other range) | ±0.5°C                             | ±0.5°C (-100°C...70°C)<br>±1.5°C (-200°C...-100°C) |
| Memory            | 28800 readings                                | 28800 readings                                | 28800 readings                     | 28800 readings                                     |
| Battery           | 3.0V lithium battery (Replaceable)            | 3.0V lithium battery (Replaceable)            | 3.0V lithium battery (Replaceable) | 3.0V lithium battery (Replaceable)                 |
| Battery Life      | 12 months                                     | 12 months                                     | 12 months                          | 12 months                                          |

| FEATURES                                    | Tempod 20B | Tempod 50XB | Tempod 100XB | Tempod 200XB |
|---------------------------------------------|------------|-------------|--------------|--------------|
| Bluetooth 4.0                               | •          | •           | •            | •            |
| Encrypted PDF report embedded with raw data | •          | •           | •            | •            |
| Multiple alarm ranges (5 ranges)            | •          | •           | •            | •            |
| Software-free configuration                 | •          | •           | •            | •            |
| USB 2.0 plug                                | •          | •           | •            | •            |
| Password protection                         | •          | •           | •            | •            |
| Compatible with TempCentre                  | •          | •           | •            | •            |
| NIST traceable 3-point calibration          | •          | •           | •            | •            |
| DO-160G compliant                           | •          | •           | •            | •            |
| IATA PI970 II compliant                     | •          | •           | •            | •            |

# TEMPSSEN DRY ICE DATA LOGGER

## PROBE-LESS DRY ICE SHIPMENT MONITORING



### Tempod 90S

Single Use Dry Ice Probeless  
USB PDF Data Logger  
P/N PD90S



### TECHNICAL DATA

|                   |                                                                         |
|-------------------|-------------------------------------------------------------------------|
| Type              | Single Use                                                              |
| Sensor            | Internal RTD Sensor                                                     |
| Measurement Range | -90°C...70°C                                                            |
| Accuracy          | ±0.7°C (-90°C...-30°C)<br>±0.5°C (-30°C...30°C)<br>±0.7°C (30°C...70°C) |
| Memory            | 28800 readings                                                          |
| Battery Life      | 30 days @-80°C                                                          |



### FEATURES

|                                             | Tempod 90S |
|---------------------------------------------|------------|
| Encrypted PDF report embedded with raw data | •          |
| Software-free online configuration          | •          |
| Multiple alarm ranges (5 ranges)            | •          |
| USB 2.0 plug                                | •          |
| Compatible with TempCentre                  | •          |
| NIST traceable 3-point calibration          | •          |
| IATA PI970 II compliant                     | •          |



|                       | ITAG <sup>®</sup> 4                                | ITAG <sup>®</sup> 4 Bio                            | ITAG <sup>®</sup> 4 TH                                      | ITAG <sup>®</sup> 4 SP                             |
|-----------------------|----------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------|
|                       | Single Use Temperature USB PDF Recording Indicator | Single Use Temperature USB PDF Recording Indicator | Single Use Temperature Humidity USB PDF Recording Indicator | Single Use Temperature USB PDF Recording Indicator |
| <b>TECHNICAL DATA</b> | P/N G4                                             | P/N G4M                                            | P/N G4H                                                     | P/N G4S                                            |
| Type                  | Single Use                                         | Single Use                                         | Single Use                                                  | Single Use                                         |
| Sensor                | Internal NTC Sensor                                | Internal NTC Sensor                                | Internal temperature and humidity Sensor                    | Internal NTC Sensor                                |
| Measurement Range     | -30°C...70°C                                       | -30°C...70°C                                       | -30°C...70°C, 0% RH...100% RH                               | -30°C...70°C                                       |
| Accuracy              | ±0.3°C (-20°C...20°C)<br>±0.5°C (other range)      | ±0.3°C (-20°C...20°C)<br>±0.5°C (other range)      | ± 0.5°C (0°C...60°C), ± 1°C (rest range), ±5% RH            | ± 0.5°C                                            |
| Memory                | 14400 readings                                     | 14400 readings                                     | 7200 readings                                               | 10080 readings                                     |
| Battery Life          | 90 days                                            | 90 days                                            | 90 days                                                     | 90 days                                            |

| FEATURES                                    | ITAG4 | ITAG4 Bio | ITAG4 TH | ITAG4 SP |
|---------------------------------------------|-------|-----------|----------|----------|
| Powerful LCD indication                     | •     | •         | •        | •        |
| Simple LCD indication                       |       |           |          | •        |
| Multiple alarm ranges                       |       | •         |          |          |
| Encrypted PDF report embedded with raw data | •     | •         | •        | •        |
| Software-free online configuration          | •     | •         | •        | •        |
| USB 2.0 plug                                | •     | •         | •        | •        |
| Compatible with TempCentre                  | •     | •         | •        | •        |
| WHO PQS Pre-qualified                       | •     | •         |          |          |
| EN12830 compliant                           | •     | •         | •        |          |
| DO-160G compliant                           | •     | •         | •        | •        |
| IATA PI970 II compliant                     | •     | •         | •        | •        |





COST-EFFECTIVE SINGLE USE DATA LOGGERS

PERISHABLE GOODS TRANSPORT



ITAG<sup>®</sup>3 Pro

Pre-programmed Single Use USB PDF  
Temperature Data Logger

P/N G3P



TECHNICAL DATA

|                   | ITAG3 Pro     |
|-------------------|---------------|
| Type              | Single use    |
| Sensor            | Internal NTC  |
| Measurement Range | -30°C...70°C  |
| Accuracy          | ±0.5°C        |
| Memory            | 7200 readings |
| Battery Life      | 90 days max   |
| Shelf Life        | 12 months     |

FEATURES

|                            | ITAG3 Pro |
|----------------------------|-----------|
| Factory pre-programmed     | •         |
| User programmable          |           |
| Encrypted PDF report       | •         |
| USB 2.0 plug               | •         |
| 2-year shelf life          |           |
| Compatible with TempCentre | •         |
| EN12830 compliant          | •         |
| DO-160G compliant          | •         |
| IATA PI970 II compliant    | •         |

# TEMPERATURE / HUMIDITY MEASUREMENT

## COLD CHAIN DATA LOGGERS

TempSen Electronics Company, a leading provider of data loggers & data acquisition systems headquartered in Shanghai, China, is committed to continuously offering a broad range of data monitoring devices and solutions for customers from life science to food industry, helping users employ stringent and reliable monitoring measures for environment sensitive goods in transit and storage. TempSen is an ISO 9001:2008 company. TempSen reserves the right to change any specifications and information about products without prior notice. TempSen, ITAG, Tempod are registered trademarks of TempSen Electronics Company. All other trademarks mentioned herein are property of their respective companies.

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