

TEMPSEN

COLD CHAIN DATA LOGGERS

AMBIENT
REFRIGERATED
FROZEN
DRY ICE
LIQUID NITROGEN
HUMIDITY



TEMPOD®

TEMPOD 30

Temperature USB PDF
Data Logger
P/N PD30

TEMPOD 50X

Temperature USB PDF
Data Logger
P/N PD50X

TEMPOD 100X

Temperature USB PDF
Data Logger
P/N PD100X

TEMPOD 200X

Temperature USB PDF
Data Logger
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) ±0.5°C (other range)	±0.3°C (-20°C...20°C) ±0.5°C (other range)	±0.5°C	±0.5°C (-100°C...100°C) ±1.0°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[®] Bluetooth[®]

TEMPOD 20XB

Temperature Bluetooth
USB PDF Data Logger
P/N PD20B

TEMPOD 50XB

Temperature Bluetooth
USB PDF Data Logger
P/N PD50XB

TEMPOD 100XB

Temperature Bluetooth
USB PDF Data Logger
P/N PD100XB

TEMPOD 200XB

Temperature Bluetooth
USB PDF 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) ±0.5°C (other range)	±0.3°C (-20°C...20°C) ±0.5°C (other range)	±0.5°C	±0.5°C (-100°C...100°C) ±1.0°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 ALPHA DRY ICE DATA LOGGERS

PROBE-LESS DRY ICE SHIPMENT MONITORING



ALPHA TD80

Dry Ice Probeless USB
PDF Data Logger
P/N A80



ALPHA TD80S

Single Use Dry Ice
Probeless USB PDF Data
Logger
P/N A80S

TECHNICAL DATA

Type	Multi-Use
Sensor	Internal RTD Sensor
Measurement Range	-80°C...70°C
Accuracy	±0.5°C
Memory	14400 readings
Battery Life	120 days (60 days @-80°C)

TECHNICAL DATA

Type	Single Use
Sensor	Internal RTD Sensor
Measurement Range	-80°C...70°C
Accuracy	±0.5°C (-30°C...30°C) ±1°C (rest range)
Memory	14400 readings
Battery Life	30 days (15 days @-80°C)

FEATURES

	Alpha TD80	Alpha TD80S
Encrypted PDF report embedded with raw data	•	•
Software-free online configuration	•	•
Repeat start without need of re-configuration	•	•
Multiple alarm ranges (5 ranges)	•	•
USB 2.0 plug	•	•
Compatible with TempCentre	•	•
NIST traceable 3-point calibration	•	•
IATA PI970 II compliant	•	•



ITAG[®] 4

Single Use Temperature USB
PDF Recording Indicator
P/N G4



ITAG[®] 4 Bio

Single Use Temperature USB
PDF Recording Indicator
P/N G4M



ITAG[®] 4 TH

Single Use Temperature Humidity
USB PDF Recording Indicator
P/N G4H

TECHNICAL DATA	ITAG4	ITAG4 Bio	ITAG4 TH
Type	Single Use	Single Use	Single Use
Sensor	Internal NTC Sensor	Internal NTC Sensor	Internal temperature and humidity Sensor
Measurement Range	-30°C...70°C	-30°C...70°C	-30°C...70°C, 0% RH...100% RH
Accuracy	±0.5°C	±0.3°C (-20°C...20°C) ±0.5°C (other range)	± 0.5°C (0°C...60°C), ± 1°C (rest range) ±4% RH (20% RH...80% RH)
Memory	7200 readings	7200 readings	7200 readings
Battery Life	60 days	60 days	60 days

FEATURES	ITAG4	ITAG4 Bio	ITAG4 TH
Powerful 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 FOOD TRANSPORT



ITAG[®]3 Pro

Pre-programmed Single Use
Temperature USB PDF Data Logger
P/N G3P



Tempod[®] SP

Single Use Temperature USB PDF
Data Logger
P/N PDS



TECHNICAL DATA	ITAG3 Pro	Tempod SP
Type	Single use	Single use
Sensor	Internal NTC	Internal NTC
Measurement Range	-30°C...70°C	-30°C...70°C
Accuracy	±0.5°C	±0.5°C
Memory	7200 readings	7200 readings
Battery Life	90 days max	90 days max
Shelf Life	12 months	24 months

FEATURES	ITAG3 Pro	Tempod SP
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.

TEMPSEN



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