TEMPSEN

AMBIENT
REFRIGERATED
FROZEN
DRY ICE
LIQUID NITROGEN
HUMIDITY

COLD CHAIN DATA LOGGERS

CATALOGUE 2023

TEMPSEN ELECTRONICS COMPANY

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TEMPOD®

USB PDF 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) ±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...70°C) ±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® Bluetooth®

BLUETOOTH + USB PDF DATA LOGGERS

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) ±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...70°C) ±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	•	•	•	•

TEMPSEN DRY ICE DATA LOGGER

PROBE-LESS DRY ICE SHIPMENT MONITORING

Tempod 90S

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

-90°

PDF RAW

TECHNICAL DATA

Type	Single Use
Sensor	Internal RTD Sensor
Measurement Range	-90°C...70°C
Accuracy	±0.7°C (-90°C…-30°C) ±0.5°C (-30°C…30°C) ±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®4

SINGLE USE DATA LOGGERS
LIFE SCIENCE / CLINICAL TRIAL

	ITAG®4	ITAG®4 Bio	ITAG®4 TH	ITAG®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
TECHNICAL DATA	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) ±0.5°C (other range)	±0.3°C (-20°C...20°C) ±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	•	•	•	•

ITAG3

COST-EFFECTIVE SINGLE USE DATA LOGGERS

PERISHABLE GOODS TRANSPORT

ITAG®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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