DATA SHEET

Tinytag Talk 2 Temperature Logger with Thermistor Probe (-40 to +125℃)

TK-4023

Issue 4
21st April 2011
E&OE

Tinytag Talk 2s are compact, lightweight, economical loggers housed in a 35mm film canister.

These loggers are used in a wide range of applications including fridge monitoring, building condition monitoring and academia.

The TK-4023 is supplied with an external probe allowing fast changing temperatures in difficult to access areas to be accurately tracked.

Popular Applications

• Building condition monitoring
• Pharmaceutical storage
• Dry food storage
• Museum display and repository

Features

• Temperature recorder
• 16,000 reading capacity
• High Accuracy
• High Reading Resolution
• Fast Data Offload
• 2 user-programmable alarms
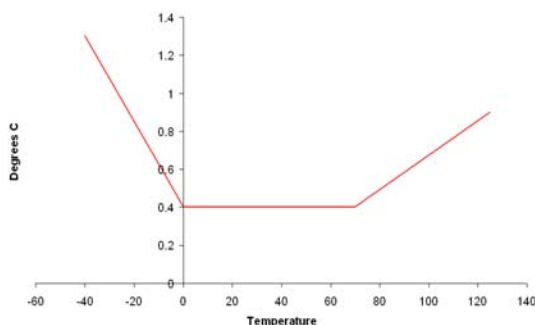• Low battery monitor
• User-replaceable battery

![omni INSTRUMENTS]
Measurement and data acquisition solutions

UK / Europe Office
Tel +44 (0)845 9000 601
Fax +44 (0)845 9000 602
info@omni.uk.com
www.omniinstruments.co.uk

Australia / Asia Pacific Office
Tel +61 (0)282 442 363
Fax +61 (0)294 751 278
info@omniinstruments.com.au
www.omniinstruments.com.au

USA / Canada Office
Tel +1-866-849-3441
Fax +1-866-628-8055
info@omniinstruments.net
www.omniinstruments.net

Features

Total Reading Capacity	16,000 readings
Memory type	Non Volatile
Delayed Start	Relative / Absolute (up to 45 days)
Stop Options	When full
	After n Readings
	Never (overwrite oldest data)
Reading Types	Actual, Min, Max
Logging Interval	1 sec to 10 days
Offload	While stopped or when logging in minutes mode
Alarms	2 fully programmable; latchable

Reading Specification

Reading Range	-40℃ to +125℃ (-40℉ to +257℉)
Sensor Type	10K NTC Thermistor (external probe)
Reading Resolution	0.05℃ or better
Temperature Stability Accuracy	±0.01℃/℃ change from 25℃

The graph below is the accuracy of the TK-4023 when used with the supplied PB-5005-0M6 probe.

Physical Specification

IP Rating	IP30 (not water-proof)
Operational Range*	-40℃ to +85℃ (-40℉ to +185℉)
Case Dimensions	
Diameter	34mm / 1.34"
Height	54mm / 2.13"
Weight	30g / 1.06oz

*The Operational Range indicates the physical limits to which the unit can be exposed, not the reading range over which it will record.

Notes

Battery Type	SAFT LS14250 or LST14250; Tekcell SBAA02P

The logger will operate with other ½AA 3.6V Lithium (Li-SOCl2) batteries but performance cannot be guaranteed.

Replacement Interval   Annually

Before replacing the battery the data logger must be stopped.

Data stored on the logger will be retained after a battery is replaced.

If used at low temperatures the data logger should be allowed to warm to room temperature before it is opened to avoid condensation forming inside the unit.

Calibration

This unit is configured to meet Gemini's quoted specification during its manufacture.

We recommend that the calibration of this unit should be checked annually against a calibrated reference meter.

A UKAS traceable certificate of calibration can be supplied for an additional charge either at the point of purchase, or if the unit is returned for a service calibration.

Approvals

This equipment complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause any harmful interference, and (2) the device must accept any interference received, including interference that may cause undesired operation.

Gemini Data Loggers (UK) Ltd. operates Quality and Environmental Management Systems which conform to ISO 9001 and ISO 14001. The scope of these systems covers the design, manufacture and servicing of data logging and associated equipment, including software.

Required and Related Products

To use this data logger you will also require:

A PB-5005-0M6: Talk Thermistor Probe (*supplied*)

One of the following pieces of software:

SWCD-0040: Tinytag Explorer software or
SW-1500: Easyview Light software or
SW-0500: Easyview Pro software

and a

CAB-0005: Tinytag Transit/Talk PC Serial Download Cable or
CAB-0005-USB: Tinytag Transit/Talk USB Download Cable

Further related products:

SER-9500: Tinytag Data Logger Service Kit

UK / Europe Office
Tel +44 (0)845 9000 601
Fax +44 (0)845 9000 602
info@omni.uk.com
www.omniinstruments.co.uk

Australia / Asia Pacific Office
Tel +61 (0)282 442 363
Fax +61 (0)294 751 278
info@omniinstruments.com.au
www.omniinstruments.com.au

USA / Canada Office
Tel +1-866-849-3441
Fax +1-866-628-8055
info@omniinstruments.net
www.omniinstruments.net

Measurement and data acquisition solutions