TEMPERATURE

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TSic™ LABkit for USB/Windows

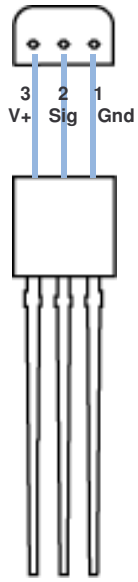
Plug&Play Evaluation Kit for precision Temperature Sensing

Features

- High precision temperature measurement with up to four sensors in parallel per TSic™ LABkit (TSic™ 306 e-line package)
- User-friendly software for temperature data display, customer-specific sensor configurations, measurement interval selection, and data recording
- Simple connections – the TSic™ LABkit interfaces with your PC via a USB cable and can measure application-specific temperature data from up to four TSic™ 306 e-line precision sensors wired to the LABkit
- Fast application development for TSic™ family sensors
- Compatible with your own sensor package wired to the LABkit without time-consuming hardware or software development
- Expedites evaluation and comparison of different models of the TSic™ sensors

TSic™ 306 Package Information

The TSic™ 306 e-line package connects through a 1m (3 ft.) cable to the TSic™ LABkit, which has a power supply decoupling capacitor. See the diagram and table below for the TSic™ 306 pin assignments.

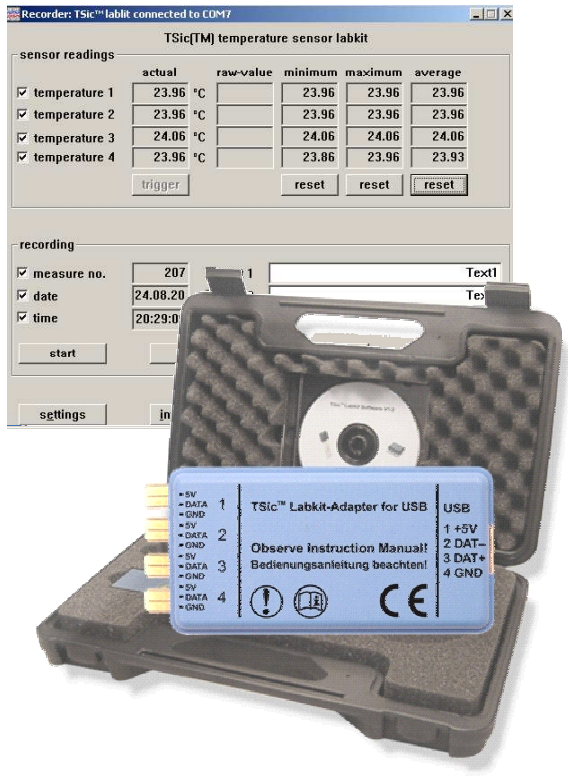


Pin	Name	Description
3	V+ (VDD)	Supply Voltage (3.0-5.5V)
2	Signal	Temperature Output Signal
1	Gnd (VSS)	Ground

The TSic™ 306 can be exchanged for other compatible sensors from the TSic™ family ICs: TSic™ 106, TSic™ 206, TSic™ 506F and TSic™ 706VHA.

Kit includes

- TSic™ LABkit USB Adapter for up to four temperature sensors – includes USB cable
- Four TSic™ 306 e-line sensor ICs (accuracy: ±0.3°C) with 1m (3 ft.) cable
- Recorder™ data acquisition, display and recording software for PC/Windows™



Brief Description

The TSic LABkit™ is a “plug&play” tool designed for evaluating the TSic™ family of temperature sensor ICs. The TSic LABkit™ offers efficient development for fast temperature sensing applications. Its software allows simultaneous display of up to four temperature signals in real time (data, minimum, maximum, and average) as well as data recording in a text file that can be imported by other applications such as Excel®.

INNOVATIVE SENSOR TECHNOLOGY

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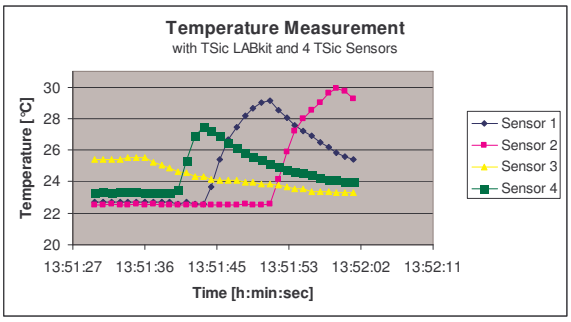
Compatible TSicTM Sensor Devices

TSic™ Part No.	Features
TSic106	**Accuracy:** Ambient: ±0.5 °C 0 °C to +40 °C: ±1.0 °C
	Resolution: 0.1 °C
	Wide Range: –50 °C to +150°C
TSic206	**Accuracy:** +10 °C to +90 °C: ±0.5 °C
	Resolution: 0.1 °C
	Wide Range: –50 °C to +150°C
TSic306	**High Accuracy:** +10 °C to +90 °C: ±0.3 °C
	Resolution: 0.1 °C
	Wide Range: –50 °C to +150°C
TSic506F	**High Accuracy:** +5 °C to +45 °C: ±0.1 °C (±100mK)
	Resolution: 0.034 °C
	Limited Range: -10 °C to +60 °C
TSic706VHA	**Very High Accuracy:** +35 °C to +45 °C: ±0.05 °C
	Resolution: 0.01 °C



Software Features

- Allows fast real-time temperature measurement: 0.2 seconds with up to four sensors
- Display of minimum, maximum and average temperature for each attached sensor
- Recorded temperature data stored in a text file that can be imported by other applications such as Excel ™ for further analysis or graphic display (see the Excel ™ chart illustration below)
- Allows continuous measurement over long time periods with user-defined data measurement intervals: seconds, minutes or hours
- An effective development tool – minimizes development time for PC or microcontroller-based applications
- Useful measurement tool for expediting development and documenting your specific applications

Your PC System Requirements

Microsoft Windows® 98, 2000 or XP; 200MHz CPU; 64MB RAM; 10MB disk space; CDROM or DVD drive; USB interface

Part Ordering

Part Number: TSicLabkit

Option: TSic LABkit probe leads with e-line connector

IST products are not authorized for use as critical components in life support devices or systems without the expressed written approval of IST counsel.

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ISO 9001

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