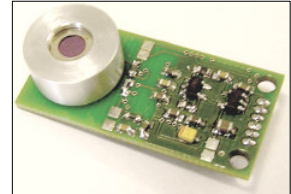


Precision Infrared Temperature Module for OEM Use

TSEV01C is a contact-less temperature measurement system based on the detection of infrared radiation.

The **TSEV01C** is equipped with a Thermopile Sensor which turns the incoming radiation to an analogue output voltage.

A microcontroller (specially adapted for this application) provides signal processing and determination of object and ambient temperature.



Benefits

Accuracy	$\pm 0.5^{\circ}\text{C}$ @ $10^{\circ}\text{C} - 40^{\circ}\text{C}$ T_{obj}
Resolution:	0.01°C
Ambient Temperature Range:	$-10^{\circ}\text{C} - +85^{\circ}\text{C}$
Size:	36mm x 16mm
Operation Voltage Range:	5V – 16V
Digital Interface:	I ² C
Threshold Outputs:	2 x user configurable

Applications

Household Applications:

Cooking Control
Hair Dryer
Microwave Oven
Toaster
Air Conditioner

Industrial Applications:

Copier & Printer
Ironer
General Production Process Control

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