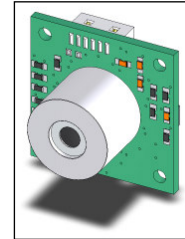


Infrared Temperature Module for OEM Use

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

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

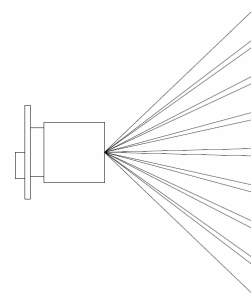
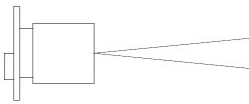
A microcontroller provides signal processing and determination of object and ambient temperature.



Two version are available

TSEM01L Single Element Sensor

TSEM0108L Eight Element Sensor



Benefits

Measurement Range:	0°C – +150°C (adoptable to broader/smaller ranges)
Ambient Temperature Range:	0°C – +85°C
Accuracy:	2% FS
Field of View:	TSEM01: <10° TSEM0108: 20° overall
Size:	25mm x 25mm
Operation Voltage Range:	5V
Digital Interface:	I ² C

Applications

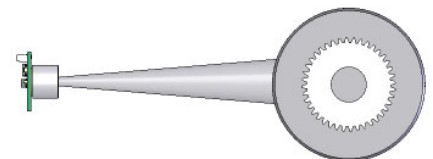
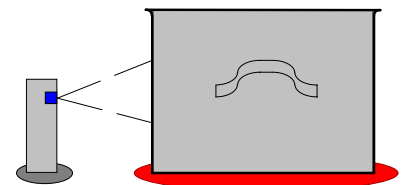
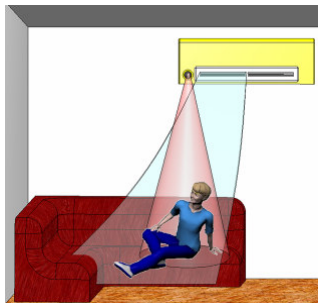
Household Applications:

Cooking Control
Hair Dryer
Microwave Oven
Toaster
Air Conditioner

Industrial Applications:

Copier & Printer
Ironer

General Production Process Control



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