Тепру.еус (таз19190)

TAS1919 series (Dongle type) EASY TO IMPLEMENT THERMOL CHECK FUNCTION NO NEED FOR DIFFICULT CALIBRATION

Tempy.eye All-in-one User-friendly sensor

Non-contact Infrared Thermopile Temperature Sensor

✓ MAKE YOUR LIFE SAFE WITH TEMPUS Tempy.eye ! ✓ ESSENTIAL BODY TEMPERATURE CHECKER !

TEMPUS TAS1919D is a dongle-type non-contact temperature sensor that measures the surface temperature of an object. We use our own 'TAS1919' 16-channel(4x4) array temperature sensor on TAS1919D. A 16-channel array thermopile sensor wafer developed and produced by Tempus was also used for the TAS1919. TAS1919D can be quickly and easily connected to the interface, allowing you to simply and accurately measure the temperature in a non-contact manner. It can be used to measure body temperature in a non-contact method at a distance of 20cm to 50cm.

KEY POINTS

- All-in-oneArray temperature sensorRH/T sensorToF sensorLEDCalibrationHeat sink
 - Non-contact
 - Accurate
 - Space utilization optimization
 - Health tracker
 - UART Digital interface
 - Easy to design



"BODY TEMPERATURE MEASUREMENT BECAME ROUTINE"

It is the most suitable and indispensable sensor in this era where various viruses are adversely affecting humanity. The heat of the human body is the easiest and most frequent route/method to check for abnormalities in the body from many virus and diseases.

TAS1919 can make your life convenient and safe.

🧍 Social Distancing



Joelar Distancing

Creating Contactless Culture

Human Body Temperature Detection Possible

About Tempus Inc.

IR Multiband Spectral Sensor Company

We design and operate our own production, calibration, and test equipment after long trial and error for mass production of infrared sensor devices and modules.

Tempus www.tempuselec.com

Tempy.eye (TRS1919D)

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EASY TO USE, QUICK, ACCURATE AND TARGET-DETECTABLE TAS1919D

TAS1919D Is an All-in-one dongle-type product with a 16-channel non-contact thermopile sensor. It is essential where health, safety, hygiene and security are important!

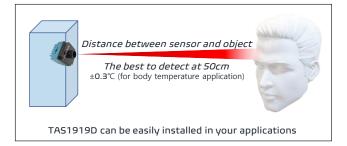
Users can simply connect TAS1919D to their application without difficulty. The heat sink is designed to achieve thermal equilibrium and not to be affected by the surrounding environment, and it is factory calibrated using a temperature/humidity sensor and ToF sensor.

It is recommended for users who want to implement an access control system with the addition of accurate and fast non-contact temperature measurement.

TAS1919D APPLICABLE TO VARIOUS APPLICATIONS

- Fever check system
- High precision non-contact temperature measurements
- Security / Safety gates intrusion
- Human detection / Movement detection
- Presence detection / Person localization
- Home energy management system
- Home appliances with temperature control
- Kitchen hood smart on / off function

EASILY INSTALLED IN YOUR APPLICATIONS



- The user measures the temperature of an object at a specific distance.
- The TAS1919D with UART interface can be easily installed on any product you want.

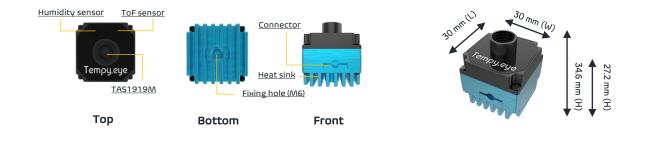
* Note: The application examples provided in this flyer are for reference only. In practical application, please contact Tempus before using the product.



Tempy.eye (TRS1919D)

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TAS1919D VIEWED FROM VARIOUS ANGLES



SPECIFICATIONS

Pixels	4x4 pixel temperature sensor inside the dongle package	VW-1			
Ассигасу	$\pm 0.3^{\circ}C$ (for body temperature application) $\pm 0.5^{\circ}C \sim \pm 5^{\circ}C$ (for Customizing)	60V V	/W-1 94 AWM 20624	 Pin 14 Pin 14 	
Target viewing angle	X= 18°, Y=18°			► Pin 1	
Measurement Distance	20 ~ 50cm (30cm is the proper distance for body temperature measurement)	Connector pin 14-pin L: 250mm FFC/FPC Flexible Flat Cable Pitch 0.5mm 			
Supply voltage	4.0 to 5.5VDC	Pin No.	Pin name	Function	
Calibrated range (Object temperature)	22°C ∽ 42.4°C (It may vary by application)	1 2	VCC Reserved	Power	
Calibrated range (Environment temperature)	10°C ∽ 40°C (It may vary by application)	3 4	SPI_SCK SPI_MOSI	SPI (Currently not supported)	
Operating temperature	-20℃ ∽ 65℃ (Accuracy guaranteed environment temperature range is 10°C~40°C)	5	SPI_MISO SPI_NSS	HADT	
Storage temperature	-20°C ~ 80°C	7 8	TxD RxD	UART	
Storage humidity	95% max	9~13 14	Reserved GND	Power	

* Note: Specification and pin configuration are subject to change without notice. Please check the latest datasheet.

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