

# THINKY Material Temperature and Rotation Multi-sensor



## Description

The **THINKY Multi-Sensor** aids manufacturers in the research, development and optimisation of material mixing processes using [THINKY planetary mixers](#).

During a mixing process, the sensor logs a clear and reliable stream of material temperature data within the mixing container. With this data, mixing processes can be adjusted to limit the creation of excess heat, important for sensitive materials, such as heat curing epoxies, where temperatures need to remain low to prevent premature curing.

In addition to heat, the sensor also provides information on the rotation speed using a gyro sensor.

Using Bluetooth technology to connect wirelessly to a computer, the sensor allows data to be downloaded and analysed remotely.

The sensor is available in 3 sizes to fit 150, 300 and 550 ml HDPE Thinky mixing containers.

## Features & Benefits



# THINKY Material Temperature and Rotation Multi-sensor



Helps with optimisation of mixing processes for sensitive

materials

- Track temperature in one second increments for full material analysis
- Wirelessly transfer data over Bluetooth for remote analysis
- Three sensor sizes, compatible with numerous THINK mixing jars and machines
- Real-time data capture facilitates process development

## Specifications

| Specifications | THIMS-150ml | THIMS-300ml | THIMS-550ml |
|----------------|-------------|-------------|-------------|
|----------------|-------------|-------------|-------------|

# THINKY Material Temperature and Rotation Multi-sensor



|                      |  |             |             |
|----------------------|--|-------------|-------------|
| Temperature Sensor   |  |             |             |
| Sensor type          | Non-contact infrared thermometer   |             |             |
| Temperature range    | +0.0°C to +79.9°C  |             |             |
| Resolution (minimum) | +0.1°C   |             |             |
| Rotation Sensor      |  |             |             |
| Sensor type          | Angular velocity (gyro)  |             |             |
| Measuring range      | 200 to 2000 rpm*   |             |             |
| Resolution (minimum) | 1 rpm  |             |             |
| Battery Life         | 100 Hours  |             |             |
| Power supply         | Multi-Sensor: coin cell (lithium battery CR2450)<br>Bluetooth receiver: USB                            |             |             |
| Dimensions           | The height of standard HDPE container + 27mm   |             |             |
| Weight               | Approx 100g  | Approx 135g | Approx 155g |
| Accessories          | Multi-sensor dedicated wireless receiver<br>Multi-sensor dedicated application software (Windows only) |             |             |

# THINKY Material Temperature and Rotation Multi-sensor



|                   |  |
|-------------------|--|
| Compatible mixers | Thinky ARE-250 / ARE-400TWIN / ARE-500 / ARE-501 / ARV-310P / ARV-310LED |
|-------------------|--|

\*Not compatible with defoaming mode (lower speed rotation)

## Ordering Information

| Part number | Description  |
|-------------|--|
| THIMS-150ML | Thinky Multi-sensor - for 150ml Thinky mixing jar<br>Includes 1 x THI150ML 150ml jar, quick start manual and USB cable |
| THIMS-300ML | Thinky Multi-sensor - for 300ml Thinky mixing jar<br>Includes 1 x THI300ML 300ml jar, quick start manual and USB cable |

# THINKY Material Temperature and Rotation Multi-sensor



| Part number | Description  |
|-------------|--|
| THIMS-550ML | Thinky Multi-sensor - for 550ml Thinky mixing jar<br>Includes 1 x THI550ML 550ml jar, quick start manual and USB cable |

Let's start by talking about your application

THINKY Material Temperature and  
Rotation Multi-sensor



01865



[orders@intertronics.co.uk](mailto:orders@intertronics.co.uk)

842842

- Name\*
- Company\*
- Phone\*
- Email\*
- Post code\*

If you're in the UK, knowing your postcode would help us get in touch even more quickly. If you're outside the UK, please indicate your country.

- 
- Tell us about your application

# THINKY Material Temperature and Rotation Multi-sensor



Any information that you submit using this form will be processed according to our [privacy policy](#).

■ Email

This field is for validation purposes and should be left unchanged.

Submit

Supplied by:

**intertronics**

INTERTRONICS

12a Station Field Industrial Estate, Banbury Road, Kidlington

Oxfordshire England OX5 1JD

t 01865 842842 e [info@intertronics.co.uk](mailto:info@intertronics.co.uk)

Last updated: November 2022 Version: 1.1

Statements, technical information and recommendations contained herein are based on tests we believe to be reliable but they are not to be construed in any manner as warranties expressed or implied. The user shall determine the suitability of the product for his intended use and the user assumes all risk and liability whatsoever in connection therewith.