

# Questionnaire for temperature measurement in PLD processes

For a customized quotation please fill out this form.  
Your information will help us recommend the best solution for your application.

## Client Address

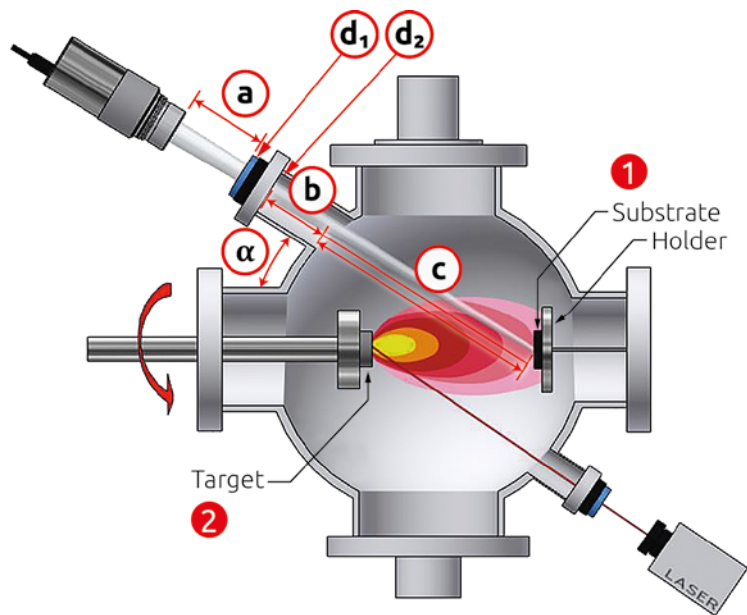
Company	Department	Web
P.O. Box	Street	
City Code	City	Country
Contact Person	Tel.	E-mail

## Industry

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## Application

Description of the measurement (Please attach pictures or drawings if possible).



### Dimensions of the measuring task

Do you want to measure the temperature of  
 the substrate **1**     the target **2**

Distance between pyrometer and window                      **a** = \_\_\_\_\_ mm

Distance between tube opening and opening of the vacuum chamber    **b** = \_\_\_\_\_ mm

Distance between opening of the vacuum chamber and substrate            **c** = \_\_\_\_\_ mm

Diameter of the sighting window                                      **d<sub>1</sub>** = \_\_\_\_\_ mm

Diameter of the sighting tube    **d<sub>2</sub>** = \_\_\_\_\_ mm

Sighting angle    **α** = \_\_\_\_\_ °

### 1 Substrate

Material \_\_\_\_\_

Temperature from \_\_\_\_\_ to \_\_\_\_\_ °C

Thickness from \_\_\_\_\_ to \_\_\_\_\_ mm

### 2 Target (Deposition material)

Material \_\_\_\_\_

Process of vaporisation     electron beam     laser     other \_\_\_\_\_

Temperature from \_\_\_\_\_ to \_\_\_\_\_ °C

Target size of the object \_\_\_\_\_ mm

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## Holder

Material \_\_\_\_\_

Is it cool down?

Yes

No

Temperature \_\_\_\_\_ °C

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## Heating source

Laser -> wavelength \_\_\_\_\_

Plasma -> nature of the gases \_\_\_\_\_

Induction

Microwaves

Flame

other \_\_\_\_\_

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## Task information

How long does the coating process take? \_\_\_\_\_

hours  days

Speed of growth \_\_\_\_\_

Is the measured object moving?

Yes

No

Is the measured object permanently visible?

Yes

No

How is the temperature measured so far?

not at all

Thermocouple

Pyrometer

other \_\_\_\_\_

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Ambient temperature of the pyrometer \_\_\_\_\_ °C

Material of the sighting window?

Quartz

Sapphire

Borosilicate

other \_\_\_\_\_

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## Specification of the instrument

Type of pyrometer

portable

stationary

Sighting device

Through-the-lens

Video camera

Laser spot light

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## Signal processing

Output signal/Digital interface

0/4-20 mA

RS 485

USB

IO-Link

other \_\_\_\_\_

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Should the measured values be recorded?

Yes

No

Is a central data recording existing?

Yes

No

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## Additional details or description



**Pyrometer LLC –**  
**Pyrometer Instrument Company**  
Attn: Service Department  
70 Weber Avenue  
Ewing, NJ 08638 USA  
Telephone: 609-443-5522