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
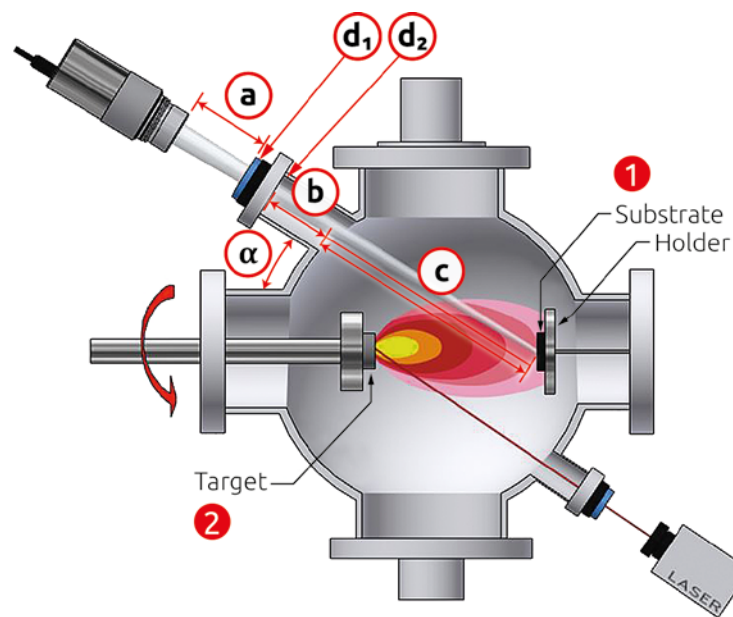
Company   Department   Web

P.O. Box   Street

City Code   City   Country

Contact Person   Tel.   E-mail

Industry

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 ❶   ☐ the target ❷

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_1 = _____	mm
Diameter of the sighting tube	d_2 = _____	mm
Sighting angle	α = _____	°

❶ Substrate

Material	_____
Temperature	from _____ to _____ °C
Thickness	from _____ to _____ mm

❷ Target (Deposition material)

Material	_____
Process of vaporisation	☐ electron beam ☐ laser ☐ other _____
Temperature	from _____ to _____ °C
Target size of the object	_____ mm

Holder

Material _____

Is it cool down? ☐ Yes ☐ No Temperature _____ °C

Heating source

☐ Laser -> wavelength _____

☐ Plasma -> nature of the gases _____

☐ Induction ☐ Microwaves ☐ Flame

☐ other _____

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 _____

Ambient temperature of the pyrometer _____ °C

Material of the sighting window? ☐ Quartz ☐ Sapphire ☐ Borosilicate

☐ other _____

Specification of the instrument

Type of pyrometer ☐ portable ☐ stationary

Sighting device ☐ Through-the-lens ☐ Video camera ☐ Laser spot light

Signal processing

Output signal/Digital interface ☐ 0/4-20 mA ☐ RS 485 ☐ USB ☐ IO-Link

☐ other _____

Should the measured values be recorded? ☐ Yes ☐ No

Is a central data recording existing? ☐ Yes ☐ No

Additional details or description

KELLER
infrared temperature solutions **ITS**

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