



processobserver

THE NEXT GENERATION
of diode based
process monitoring

processobserver 6.0

Monitoring of welding processes in real time

Basis for optimal manufacturing processes:

Detection & documentation of welding defects & process irregularities

Complete solution: Sensor, data storage, software, offline tools
& reporting, statistics, trend analyses

Flexible integration: On-axis, off-axis

100% traceability

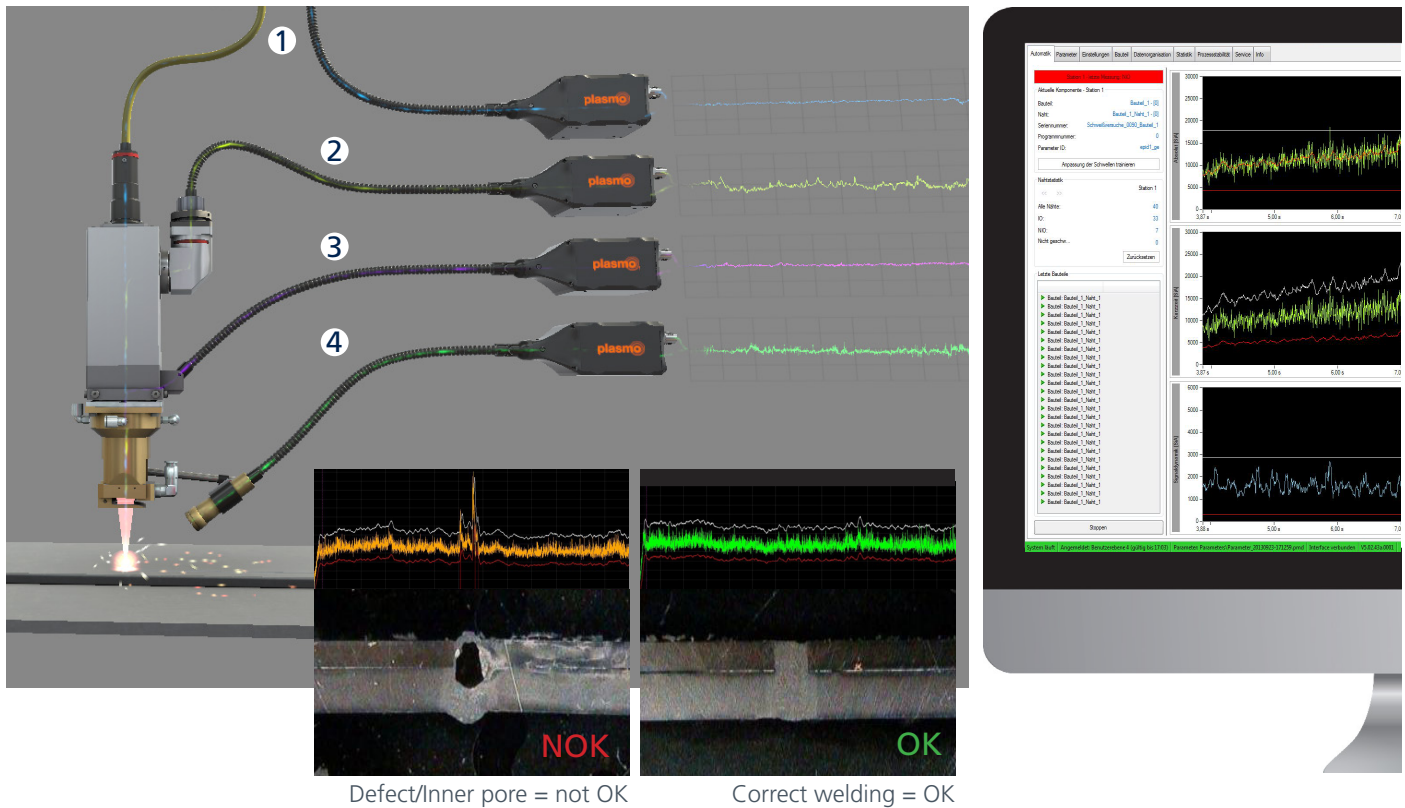
PRODUCE QUALITY. ALWAYS.

BENEFITS

processobserver

- Compact design of the sensor
- High inspection speed: Sampling rate up to 250 kHz
- Scalability: From one sensor to sensor network
- Flexible optical integration: Laser ^①, camera adapter ^②, prisma ^③ & external integration ^④; also parallel if required

Process - Optical fiber - Sensor - Ethernet - Analysis Software



Defect/Inner pore = not OK

Correct welding = OK

Technical Data	Silicium-Sensor	Germanium-Sensor
Spectrum [nm]	400 - 1100	1200 - 1800
Analog Input (0 - 10V)	1	1
Digital I/O (24V)	2E/2A	2E/2A
Sampling Rate	250kHz	
System Interface	Digital I/O, DeviceNet, Ethernet IP, Profibus, Profinet, etc.	
Air Humidity - Operating Temperature	max. 93% at 40°C - 10°C to 50°C	
Supply - Dimensions - Weight	24V - 50 x 50 x 150mm - 450g per Sensor	

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