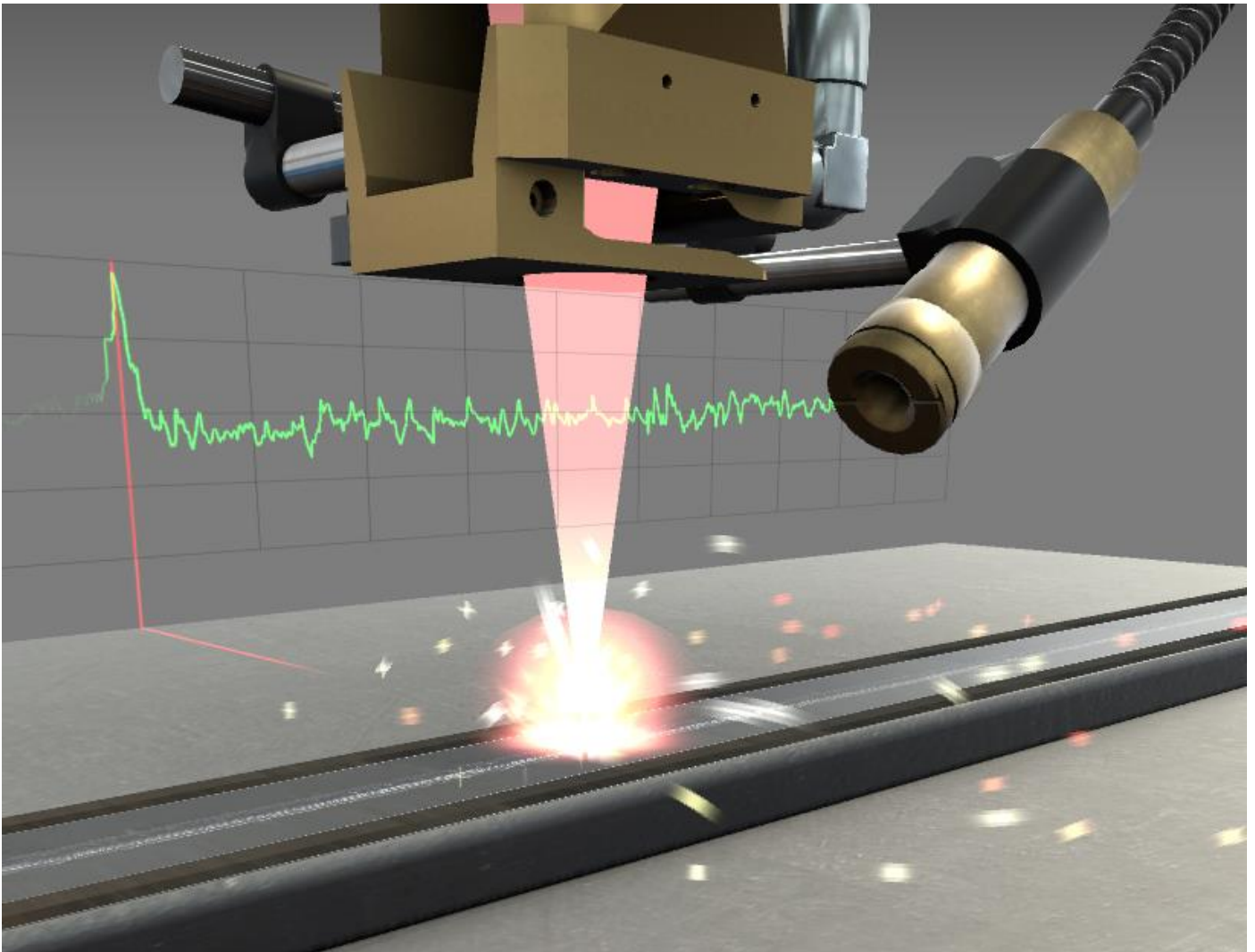# **plasmo** process**observer**

Online monitoring of welding processes in real time

Features

- **Monitoring, 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:** User-friendly interface with which all needed information can be covered.

- **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, camera adapter, prism & external integration; (All possible and available integration variants, can be used in parallel if required).

n L I G H T **plasmo**

processobserver 6.0 (VIS/NIR)

	Technical Data
Spectrum (nm)	VIS = 400 – 1100nm / NIR = 750 – 1800nm
Optical inputs	1 (up to 4 sensors in one software possible)
Digital I/O (24 V)	2 I/O
Sampling rate	up to 250kHz
System interfaces	Digital I/O, DeviceNet, Ethernet IP, Profibus, Profinet, EtherCAT, etc.
Air humidity – Operating temperature	Max. 93% at 40°C up to 50°C
Supply – Dimensions - Weight	24 V – 50 x 50 x 150 mm – 450 g per sensor
Connection - Visualization - Analysis	database connection, rework visualization, statistical data analysis, Industry 4.0 ready

fastprocessobserver

	Technical Data
Spectrum (nm)	VIS = 400 – 1100nm
Optical inputs	4
Digital I/O (24 V)	up to 8 I/O
Sampling rate	up to 250kHz
System interfaces	Digital I/O, DeviceNet, Ethernet IP, Profibus, Profinet, EtherCAT, etc.
Air humidity – Operating temperature	Max. 93% at 40°C up to 50°C
Supply – Dimensions - Weight	24 V – 80 x 160 x 160mm – 1240 g per sensor
Connection - Visualization - Analysis	database connection, rework visualization, statistical data analysis, Industry 4.0 ready

processobserver advanced

	Technical Data
Spectrum (nm)	VIS & NIR = 400 – 1800nm
Optical inputs	2
Data acquisition	analogue
Sampling rate	2kHz
Digital I/O (24 V)	up to 16 I/O
System interfaces	Digital I/O, DeviceNet, Ethernet IP, Profibus, Profinet, EtherCAT, etc.
Air humidity – Operating temperature	Max. 93% at 40°C up to 50°C
Supply – Dimensions - Weight	~85-264VAC / 47-440Hz – 242 x 232 x 159 mm – 5100 g per Sensor
Connection - Visualization - Analysis	database connection, rework visualization, statistical data analysis, Industry 4.0 ready

PRODUCE QUALITY. ALWAYS.

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