



Work with the industry leader

Tecnar is a global leader in delivering cutting-edge spray sensors to the shop floor. With over 1,000 sensor heads in operation daily across more than 25 countries, we are committed to driving innovation in the industry. From the start, we have invested heavily in R&D and in understanding our clients' needs. This dedication ensures our spray sensors consistently deliver the best performance for our customers.

Why use our spray sensor?

Powder lot validation
Process IP archiving
Optimized gun maintenance
Reduced coupon usage
Reduced powder waste
Minimized downtime

Less operator dependency
Instant go/no-go tool
Proactive problem resolution
Effortless process optimization
Quick booth qualification
Efficient process development

Industry-leading accuracy

Accuraspray's measurement principle is process-independent, ensuring reliable readings. Advanced filtering algorithms certify accuracy, while factory calibration on NIST-traceable stations guarantees precise metrics for real-world conditions.



@Polycontrols

Expert support, every step of the way

Our dedicated team provides reliable, proactive solutions to keep your operations running smoothly. With deep expertise and a customer-first approach, we offer transparent service, detailed documentation, free upgrades and preventive support to minimize downtime and maximize performance.

Absolute repeatability

For this new generation of the product, we envisioned that the Accuraspray would spread the use of sensors for process parameters transfer, parameter development and process consistency to each and every booth in the world. We believe that building trust in the product's consistency is the key to democratizing the use of sensors.



Build your intellectual property on what really counts



Particle temperature



Particle velocity



Plume position



Plume angle



Plume intensity



Plume width



Plume density



Process stability



Substrate temperature (optional)

Industry 4.0 ready

The Accuraspray 4.0 provides a web-based interface for easy access from any computer, allowing for full 4.0 booth integration via HTTP or external PLC.

Install and set-up yourself

We deliver the unit with detailed documentation for installation and set-up, plus a free remote training session. When it arrives, you will be fully capable of installing and using the equipment.

Go for the universal solution

Our NIST traceable *Accuraspray 4.0* sensor head can characterize all thermal spray processes, including suspensions.

Wire-Arc Spray

Flame Spray

Air Plasma Spray (APS)

High Velocity Oxy-Fuel Spray (HVOF)

High Velocity Air-Fuel Spray (HVAF)

Suspension Plasma Spray (SPS)

Vacuum Plasma Spray (VPS)

Low-Pressure Plasma Spray (LPPS)

Plasma Transferred Wire-Arc (PTWA)

Technical specifications

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Particle temperature range

Particle velocity range	5-1200 m/s (15-4000 ft/s) at 2% accuracy
Plume intensity	5% accuracy
Plume width and position	±0.6 mm (±0.02 in.) accuracy
Plume angle	0.2 degree accuracy
Process stability	Automatic instability detection
Substrate temperature pyrometer	0-500°C (32-932°F)
Measurement area information Working distance	200 mm (7.87 in.)
Temperature and velocity measurement area with cylindrical lens (default)	3.4 mm x 25 mm = 85 mm ² (0.13 in. x 1 in. = 0.13 in. ²)
Temperature and velocity measurement area without cylindrical lens	Ø3.4 mm = 9 mm ² (Ø0.13 in. = 0.014 in. ²)
CMOS camera field of view	450 mm (17.7 in.)
Plant supplies Electrical requirements	120-230 VAC.
The currequirements	Auto-Switch 50/60Hz 1.5/1.5A

≥1000°C (≥1832°F) at 3% accuracy

Electrical requirements	120-230 VAC, Auto-Switch 50/60Hz 1.5/1.5A
Air supply	1.35 to 2 bar (20 to 30 psi)
Positioning bracket	Refer to mechanical drawing in manual
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Sensor head	190 mm X 110 mm X 62 mm (7.5 in. x 4.3 in. x 2.5 in.) 1.8 kg (4 lb)
Controller	230 mm X 230 mm X 102 mm (9 in. x 9 in. x 3.9 in.) 5.6 kg (12 lb)
Total weight	7.4 kg (16 lb)



User interface



Keep your process within its window of tolerance

Simplify the operator's daily tasks by offering a straightforward indication of the spray condition.

This is achieved through a colour-coded system:

- Spray conditions nominal
- Preventive maintenance required
- Spray conditions out of range

earlier insight changes everything





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Learn more about the Accuraspray 4.0



"Thanks to the Accuraspray, we have been able to achieve process Ppks over 1.5— even for very challenging coatings, such as thick, porous TBCs sprayed using new advanced gun concepts. The Accuraspray has also proven invaluable for process parameter development, for establishing tolerance windows, for troubleshooting and, finally, as a go/no go instrument."

The Thermal Spray Team GKN Aerospace Sweden