



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

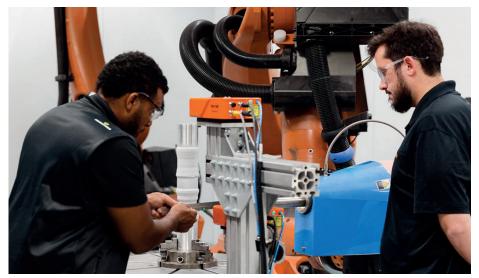
This dedication ensures our spray sensors consistently deliver the best performance for our customers.

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.



# Expert support, every step of the way

**Industry 4.0** 

The Accuraspray CS provides

a web-based interface for easy

set-up yourself

access from any computer, allowing for full 4.0 booth integration via HTTP

ready

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.

@Polycontrols

### 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.



## or external PLC. Install and

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.

#### **Build your intellectual property** on what really counts



Relative feed rate



**Process stability** 



In-flight particle velocity



Substrate temperature (optional)

#### **Technical specifications**

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Particle velocity range	5-1200 m/s (15-4000 ft/s) at 2% accuracy
Relative feed rate	Normalized a.u.
Substrate temperature pyrometer	0-500°C (32-932°F)
Process stability	Automatic instability detection
Measurement area information	
Measurement area	Ø3.4 mm = 9 mm <sup>2</sup>
	(Ø0.13 in. = 0.014 in.²)
Working distance	200 mm (7.87 in.)
Laser characteristics	
Laser wavelength	940 nm
Nominal laser power	20 W
Nominal power density	15.7 W/cm²
Laser type	Class IV
Plant supplies	
Electrical requirements	120/230 VAC, Auto-Switch 50/60Hz 3/2A
Air supply	2.4 bar (35 psi)
Positioning bracket	Refer to mechanical drawing in manual
Dimentions and weight	
Sensor head	205 mm x 149 mm x 62 mm (8.1 in. x 5.8 in. x 2.4 in.) 3.2 kg (7.1 lb)
Controller	400 mm x 400 mm x 200 mm (15.7 in. x 15.7 in. x 7.9 in.) 13.9 kg (28.7 lb)
НМІ	238 mm x 110 mm x 126 mm (9.4 in. x 4.3 in. x 5 in.) 1.8 kg (4 lb)
Total weight	18.9 kg (41.7 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 CS



"At PolyCSAM, we use the *Accuraspray CS* for monitoring the in-flight particle's velocity within our Cold Spray Additive Manufacturing process. The sensor has helped us identify changes in the CSAM system, as reflected by particle velocities. The *Accuraspray CS* is very sensitive to changes in the velocity of particles, which has a direct impact on the resultant coating/build-up. In our facility, it's a great addition for process monitoring and quality control."

Fernanda Caio, Operations Manager PolyCSAM