

# DO Sensor InPro6960i/12/120

*The InPro6960i optical oxygen sensor offers high operational availability, top performance and easy maintenance for the measurement of dissolved oxygen in brewery applications.*

## High Operational Availability

The In Pro 6960i offers outstanding measurement performance with a low detection limit of 0 ppb to 25 ppm, minimum drift and a short response time.

## Suitable for Hygienic Processes

The optical technology is available for various brewery applications. It is especially suitable for sterile and hygienic processes in wort aeration.

## Advanced Predictive Diagnostics

This DO sensor has Intelligent Sensor Management (ISM) technology, offering predictive diagnostics to reduce maintenance and simplify calibration.



## ISM Redefines Maintenance

The built-in digital ISM technology provides the user important information about the sensor wear. Maintenance planning becomes easy, as accurate diagnostics predict when sensor maintenance will be required.

### Specifications - DO Sensor InPro6960i/12/120

Measurement Parameter	Oxygen
Measurement Technology	Optical fluorescence quenching
Accuracy	± (1 % of the reading + 8 ppb)
Response Time (Text)	T98 = < 20 s
Primary Media/Application	Food and Beverage
ISM (Digital) or Analog	ISM (Digital)
Wetted Metallic Material	316L stainless steel
Surface Roughness of Wetted Material	N5/Ra16 (Ra=0.4µm/16µin)
Sensor Diameter	12mm
O-Ring Material	EPDM
Process Connection	Pg 13.5
Sensor Length	120 mm
Wetted membrane material	Silicone
Connector Design	Straight
Model Family	InPro 6900i optical series
Autoclavable/Sterilizable	Yes
CIP resistant	Yes
Mechanical Temp. Range	23 °F ; 250 °F
Operating Pressure (Bar)	0.2–12 Bar
Operating Pressure (PSI)	02.9–174 PSI
Design Pressure (imp.)	174 psi
Design Pressure	12 bar
Digital Integration	RS485 - ISM®
Cable Connector	M12 5-Pin
Hygienic/Biocompatibility Approvals	FDA/USP Class 7
Certificates & Approvals	Quality certificate, Material certificate 3.1, Surface finish certificate, FDA/USP Class IV

### Easy and Fast Operation

With the fast OptoCap replacement and the Plug & Measure ability, the InPro6960i optical oxygen sensor can be calibrated away from the process, and then quickly swapped into the process environment without the need to recalibrate. No polarization is required.

### High Process Safety

The materials of construction of the InPro6960i DO sensor are FDA compliant and the easy-to-clean high-polished surface (N5 grade) also satisfies increasing regulatory requirements.

### Enhanced Process Control

The sensor's measurement performance helps to reduce out of spec production. ISM helps to make optical oxygen measurement simple and more reliable and significantly reduces the risk of sensor failure during production.