

os4200 | Temperature Probe

Part #	os42aa- wwww-1xx-y-zz
Serial #	
Nominal Wavelength, λ_0 (nm) @22°C	0000.0
Certified by:	

Variable	Description	Value			Units
λ	Wavelength	Interrogated		nm	
λ_{OS}	Wavelength Offset				nm
C ₃	Calibration Coeff. 3				-
C ₂	Calibration Coeff. 2				-
C1	Calibration Coeff. 1				-
C ₀	Calibration Coeff. 0				-
S⊤	Temp. Sensitivity	~10 (@22°C)		pm/°C	

Calibration Method (Standard or Premium)

Standard -40 to 120°C

Calibrated Temperature Range (T, °C)

Temperature (T, °C):

$$T = C_3(\lambda + \lambda_{OS})^3 + C_2(\lambda + \lambda_{OS})^2 + C_1(\lambda + \lambda_{OS}) + C_0$$

Temperature Calibration

The os4200 series temperature sensors provide absolute temperature measurements over the calibrated range. The premium calibration method provides optimal accuracy performance.

For additional information about temperature sensors and calibration methods, see:

http://www.micronoptics.com/support_downloads/Sensors/



Products displaying the "Micron Optics Tuned" logo include Micron Optics tunable technologies thus ensuring high quality and performance. Certified sensors have been tested and qualified for use with Micron Optics Sensing Instruments.

Qualification Statement



This sensor has been manufactured using procedures and materials documented under Micron Optics, Inc's ISO 9001:2000 qualification process. This Sensor Information Sheet is verification of conformance.

Patent Certification

	MICRON OPTICS, INC.
INTE	RNATIONAL CERTIFICATION FOR FIBER OPTIC SENSING
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Installation Information

The os4200 temperature probes may be used in a variety of applications. While a sealed sensor, the probe tip is not designed to be submerged. The probe should not be exposed to temperatures greater than 275°C. The other end of the probe whether terminated with a connector or a fusion splice should not exceed 80°C. The cable should be secured to prevent any sharp bends or pulling on the sensor. Sensors may be mounted as follows:

- os4210 May be mounted by clamping or bonding. Care should be taken to not bend or distort the probe housing.
- os4230 In addition to clamping or bonding, a 3/16 inch compression fitting may be used to mount the sensor making a liquid tight seal, especially for tank applications.
- os4280 In addition to clamping or bonding, a 1/4 inch compression fitting may be used to mount the sensor making a liquid tight seal, especially for tank applications.

For additional information about the os4200 series temperature probe, see:

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