

Temperature Limits

SENSOR TIPS

Sensor tips are constructed with glass or quartz fibers and stainless steel housings. *With extreme high temperature applications, please contact the factory for assistance.*

Cryogenic to 200°C continuous 300°C intermittent	Standard, most models
250°C continuous to 350°C intermittent	Option T8 High Temperature Epoxy
400°C continuous to 480°C intermittent	Option T9 High Temperature Adhesive
> 480°C continuous	Option T10, Quartz Fiber, Ceramic Adhesive
450°C continuous to 600°C intermittent	Option T10C, Copper-Clad Quartz Fiber
700°C continuous	Option T10G, Gold-Coated Quartz Fiber
800°C continuous	Option T10F, Fused-End Quartz Fiber

FIBEROPTIC CABLE JACKETS

The sensor cables use glass or quartz fibers with a protective jacket. The jacket materials limit the temperature range of the cables as shown below.

TEMPERATURE LIMITS OF CABLE JACKETS

Standard	PVC/ Steel Monocoil. Good general purpose jacket.	+10 to +107°C
C1	Stainless Steel Interlocking Hose. Provides maximum strength	-150° to +850°C
C2	Silicone Fiberglass/ Steel Monocoil. Flexible, radiation resistant	-68 to +200°C
C3	Silicone over PTFE Spiral Wrap. Non-metallic light crush resistance, for short lengths only, 2 meters maximum.	-75 to +260°C
C4	Corrugated Plastic. Semi-crush proof, liquid tight	-20 to +85°C
C5	PTFE Over SS Interlok. Provides vapor barrier protection, maximum strength, wide temperature range. Has poor flexibility.	-270 to +260°C
C6	PVC over Nylon Wrap. Semi-crush proof, EMF compatible	+10 to +105°C
C7	PTFE Tubing. MRI, EMF & vacuum compatible. Poor flexibility, provides vapor barrier protection.	-270 to +260°C
C8	PVC Only. Good flexibility, no crush resistance, MRI & EMF compatible	+10 to +105°C
C9	Annealed SS Tubing (semi-rigid) Provides vapor barrier protection, maximum strength, widest temperature range. Has very poor flexibility.	-150° to +850°C
C10	Silicone over SS Interlok. Good flexibility and crush resistance	-75 to +260°C
C11	Thin Wall Polyolefin. Semi-flexible vapor barrier, no crush resistance	-55 to +135°C
C12	Thin Wall Polyolefin over SS Interlok. Flexible vapor barrier with good crush resistance...	-55 to +135°C
C13	Furcation Tubing, PVC/Kevlar/PTFE High tensile strength, light crush resistance. Good for small diameter fiber models such as D20, RC19	+10 to +85°C
C14	Braided SS over PTFE. Very poor flexibility, liquid tight, good for high pressure.	-55 to +200°C



ELECTRONICS

Analog Output Amplifiers - 0°C to 70°C

Digital Amplifiers without LCD - 0 °C to 70°C

Digital Electronics with LCD - 0°C to 50°C