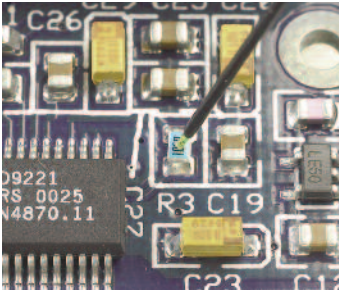


Immune, Accurate and Safe Fiber Optic Probes and Accessories in Hostile Environments

Leading the industry for more than 30 years, LumaSense Technologies' line of Luxtron® fiber optic thermometry probes are rugged and robust. Using Luxtron's patented technology, our Fluoroptic® probes are chemically resistant and immune to electrical noise. LumaSense Technologies offers probes for an array of applications and has extensive experience designing customized probes for OEM applications.



STS Surface Temperature Probes

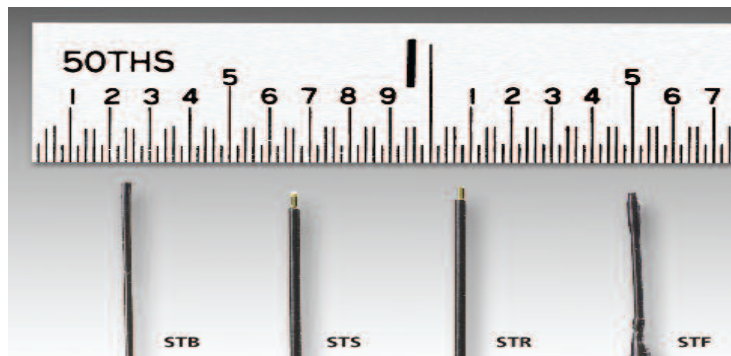
Benefits

- Probes immune to a wide range of harsh environmental characteristics including but not limited to RF, MRI, Microwave
- Chemically Resistant
- Non-metallic
- Corrosion Resistant
- Safe for Flammable or Explosive Environments
- Stable and Inert Sensor



MicroProbe

	Temperature Range (°C)	Response Time (Sec.)	Lengths Available	Example Applications
Fast Immersion (Air and Liquid): STF	0 to 295	0.25	1m, 2m, 5m, 10m	<ul style="list-style-type: none"> – Monitoring of high voltage experiments – Temperature gradient mapping of fast temperature ramps – Temperature control of microwave processes
Surface Temperature: STS	-25 to 200	0.025	2m, 5m	<ul style="list-style-type: none"> – Heat monitoring of “live” electrical circuits – Temperature monitoring of implant leads at precise locations – Temperature monitoring of bonding surfaces
Remote Temperature: STR	-25 to 330	0.025	2m, 5m	<ul style="list-style-type: none"> – Testing of electro-explosive devices (EEDs) – Temperature monitoring of small targets
Medical: STB	0 to 120	0.25	1m	<ul style="list-style-type: none"> – Temperature monitoring of clinical procedures and academic research
Medical: MedFP	0 to 120	0.25	1.2m	<ul style="list-style-type: none"> – Temperature monitoring of ablation applications
MicroProbe	0 to 120C	0.2.0	1m	<ul style="list-style-type: none"> – Minimally invasive immersion or surface temperature – Medical research – Smallest diameter commercially available probe
Extensions General Purpose: SST	-40 to 105		2m,5m, 10m	<ul style="list-style-type: none"> – Standard jacketed extension cable for normal use
Heavy Duty: HST	-40 to 80		2m, 5m, 10m	<ul style="list-style-type: none"> – Heavy jacketed extension cable for rough environments
Medical: FOC-ST	0 to 80		2m, 5m, 10m	<ul style="list-style-type: none"> – Required extension cable for use with STB medical probe
Medical: MedFP Ext	0 to 120		5m	<ul style="list-style-type: none"> – Required extension cable for use with MedFP Probes

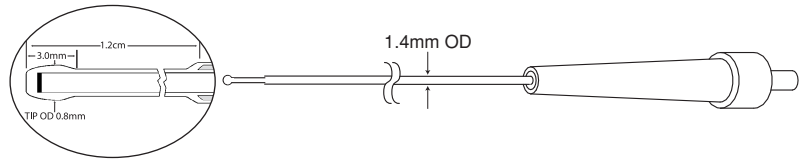


Luxtron® Fiber Optic Thermometry Probes & Accessories

Probes available in 2, 5, and 10 meter lengths unless otherwise specified.

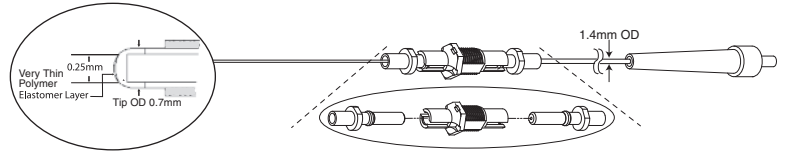
STF Probe

Application: Fast response immersion
 Temperature Range: 0 to 295°C¹
 Response Time: 1.25 seconds still air; 250 milliseconds in stirred water



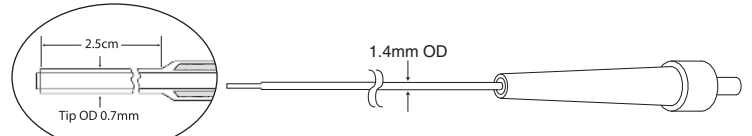
STS Probe Kit

Application: Surface contact
 Temperature Range: -25 to 200°C
 Response Time: 25 milliseconds
 Kit Includes: 2m or 5m probe and two 10cm replaceable tips (tip OD 0.7mm)



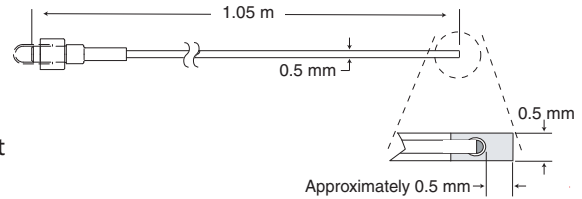
STR Probe Kit

Application: Non-contact remote sensing
 Temperature Range: -25 to 330°C
 Response Time: 0.25 seconds
 Kit includes: Alpha phosphor material, three types of binders, 2m blank probe, and Remote Sensing User's Guide



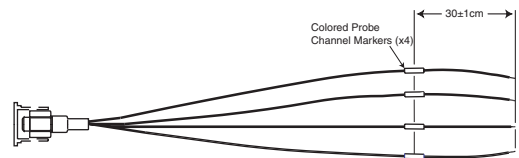
STB Probe²

Temperature Range: 0 to 120°C
 Length: 1 meter
 Response Time: 0.25 seconds
 Fiber Type: 200µm hard clad silica fiber with Tefzel® jacket
 Connector Type: RPC-1 molded plastic



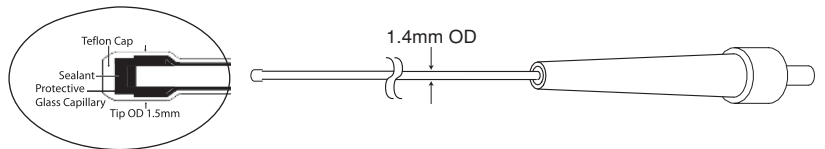
MedFP Probe³

Temperature Range: 0 to 120°C
 Length: 1.2 meter
 Response Time: 0.25 Seconds
 Fiber Type: 200µm hard clad silica fiber
 Color: Black with color bands
 Connector Type: RPC-1 molded plastic



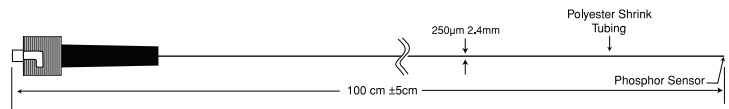
STM Probe

Application: General purpose immersion
 Temperature Range: -25 to 250°C*
 Response Time: 5 Seconds still air; 0.7 seconds in stirred water



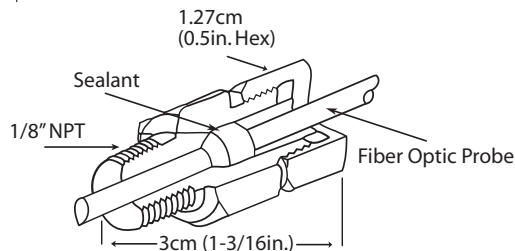
MicroProbe

Temperature Range: 0 to 120°C
 Response Time: <200ms in stirred water
 Length: 1 meter



Compression Gland Feedthrough

Material: 304 Stainless
 Compatible Probes: STM, ST, and STR
 Temperature Range: -20 to 230°C
 Maximum Vacuum: 5e10⁻⁶ Torr
 Maximum Pressure: 3,000psi
 Sealing Gland: Viton



¹ Can be custom ordered to measure temperatures as low as -200°C.
² One FOC-ST extension required per probe
³ One MedFP extension required

ASRAS CO.,LTD.
 1694, 1694/1 Prachasongkhro Road,
 Dindaeng, Dindaeng, Bangkok 10400
 Tel. 02-692-3980, Fax. 02-692-3978
 E-mail: sales@asras.com
 www.asras.com; www.asras.co.th

