

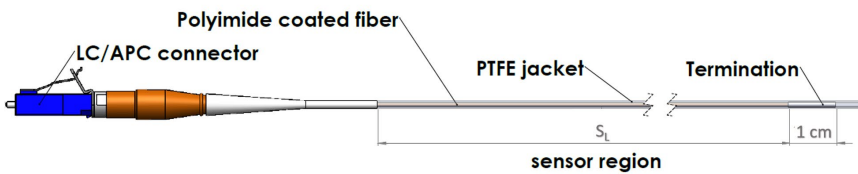
HD Temperature Sensors

High-Definition Fiber Optic Temperature Sensors

Luna’s high-definition (HD) temperature sensors are low-profile, flexible temperature sensors for use with the ODiSI measurement system. HD temperature sensors can map temperature profiles with ultra-high spatial resolution, able to sense temperature points with pitches down to 0.65 mm. HD temperature sensors are polyimide coated fiber housed loosely in a PTFE tube (jacket) to reduce the amount of strain applied to the sensor when bonded or embedded.

KEY FEATURES

- High-density temperature measurements
- Flexible, polyimide coated sensing fiber housed in a PTFE tube
- Low profile for embedded or surface applications
- Included sensor key enables plug-and-play operation



PARAMETER	SPECIFICATIONS	UNITS
Fiber type	Polyimide coated low bend loss fiber	–
Fiber jacket	Polytetrafluoroethylene (PTFE) tube	–
Sensor termination	1 cm, 304 stainless steel	–
Sensor diameter	0.8	mm
Operating temperature - sensing region	-40 to 220	°C
Operating temperature - connector	-60 to 150	°C

ORDERING

Part Number	Description
HD6T01LC220P	High-definition (HD) temperature sensor, 1 m, with reference key files
HD6T02LC220P	High-definition (HD) temperature sensor, 2 m, with reference key files
HD6T05LC220P	High-definition (HD) temperature sensor, 5 m, with reference key files