HD 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**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD6T01LC220P</td>
<td>High-definition (HD) temperature sensor, 1 m, with reference key files</td>
</tr>
<tr>
<td>HD6T02LC220P</td>
<td>High-definition (HD) temperature sensor, 2 m, with reference key files</td>
</tr>
<tr>
<td>HD6T05LC220P</td>
<td>High-definition (HD) temperature sensor, 5 m, with reference key files</td>
</tr>
</tbody>
</table>