LumaSMART Fiber Optic Thermometry Probes & Accessories

Transformer Probes

<table>
<thead>
<tr>
<th>Probe Name</th>
<th>Part Number</th>
<th>Fiber Type</th>
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</thead>
<tbody>
<tr>
<td>DipTip Rugged</td>
<td>00-13392-XX</td>
<td>200μm all silica, double PFA Teflon® jacketed, Kevlar® cabled fiber</td>
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<tr>
<td>Quality</td>
<td>00-14710-XX</td>
<td>200μm all silica, PTFE Teflon® jacketed</td>
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Technical Specifications

- **Temperature Range:** -30 to 200 °C
- **Standard probe lengths:** 2, 4, 6, 8, or 10 meters (custom lengths available upon request)
- **Response Time:** 0.7 seconds in stirred liquid
- **Connector Type:** Stainless steel with stainless steel jam nut and Viton O-ring seal. Can be used with Tank Wall Feedthrough Plate Assembly (PN 00-14098-XX) or individual tank wall penetrators (PN 00-12498-01).
Tank Wall Plate

Bolt-on style feedthrough plate includes stainless steel plate with choice of 4, 6, 8, 12, or 16 welded-on tank wall penetrators and threaded caps. Also includes carbon steel ring for welding to the transformer tank wall. Internal plugs (PN 08-14790-01) and external plug assembly (PN 08-14790-02) available for unused connections. NEMA-12 Enclosure Kit (PN 00-14133-01 & 00-15472-01S) to cover tank wall feedthrough plate assembly also available.

Fiber Optic Extensions

Fiber optic extensions are used to connect the probes from the tank wall penetrator to the instrument. These extensions are typically routed through standard electrical conduit.

Single Fiber Extension (PN 00-12873-XX)
- Environmental Rating: -28 to 105°C (-50 to 75°C also available on request)
- Fiber Type: 400μm HCS, PVC jacketed and Kevlar®
- Standard Lengths: 5, 10, 15 or 20 m (custom lengths available on request)
- Connection to TWP: LumaSense’s proprietary Viton O-ring connector
- Connection to Instrument: ST for connection to LumaSense instruments/modules

Four Fiber Extension (PN 00-14242-XX)
- Environmental Rating: -28 to 105°C (-50 to 75°C also available on request)
- Fiber Type: 4 fiber cable: black PVC outer jacket over 4 subunits and central Kevlar® strength member. Subunits: black Hytrel® over 400μm HCS fiber.
- Standard Lengths: 5, 10, 15 or 20 m (custom lengths available on request)
- Connection to TWP: LumaSense’s proprietary Viton O-ring connector
- Connection to Instrument: ST for connection to LumaSense instruments/modules

*The 12 & 16 tank wall plates are 9.97” in diameter (the 4, 6, and 8 are 8.5”).