

Photonic Temperature Transducer (PTT)

Synaptec's temperature sensors are seamlessly compatible with its electrical current and voltage sensors and the central Interrogator, easily adding valuable insights into the performance and condition of primary equipment and plant.

The PTT uses proven, industry-standard optical temperature measurement techniques to add accurate spot measurements of temperature to any surface or item of plant. The small sensor patch provides live temperature readings continuously, accurately, and without any requirement for batteries, maintenance, or power.

Correlation of thermal measurements synchronously with Synaptec's electrical measurements is automatically performed in real time by Synaptec's Interrogator, creating valuable new insights into the condition and dynamic rating of primary equipment including overhead lines, subsea and underground cables, and HV plant such as generators, motors, and transformers.

Specifications

Thermal

Operating temperature range	-40 to +120 °C
Temperature accuracy	0.1 °C
Response time	4.2 s

Mechanical

Dimensions	31.5 x 15.0 x 7.6 mm
Weight	38 g
Housing material	Anodised aluminium
Cable type	3 mm armoured cable
Mounting method	Epoxy Screws Mechanical Fastening

