



PSI
Technics

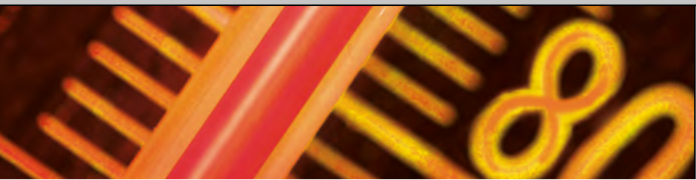
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SENSOR PROTECTION / COOLING

**Protection Case for Sensitive Sensors
in High-Temperature Environments of up to 176°F (+80°C)**

*Significantly increases
the life-span of diodes
for accurate
measurements*





SENSOR PROTECTION / COOLING

The TPCC Keeps Sensors Cool to Prevent Downtime



The Thermo Protection Cooling Case (TPCC®) protects sensitive sensors in high-temperature environments of up to 176°F (+80°C)

The innovative and award-winning Thermo Protection Cooling Case is ideal for protecting sensitive optical sensors such as laser distance sensors or optical data transfer systems from high temperatures or extreme temperature fluctuations.

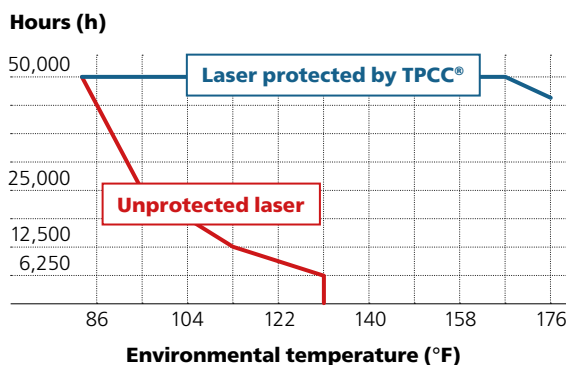
Protected by the TPCC®, optical sensors can now be used in environments where high temperatures and radiant heat previously either prevented the use or significantly reduced the life-span of optical sensors. Compared to alternative approaches, such as water- or air-cooled installations, the TPCC® is easy to install and inexpensive to operate.

The TPCC® enables the reliable use of laser diodes, electronic components, optical data transfer systems and other temperature-sensitive sensors at temperatures of up to 176°F (+80°C), which occur, for example, in iron and steel production facilities.

The use of the TPCC® considerably increases the diode life-span of optical measurement systems and guarantees precise measurements.



The TPCC® increases the life-span of your laser



TPCC® Advantages at a Glance – Your Benefits:

- >> Significantly increases the diode life-span of optical laser systems
 - >> Guarantees precise measurements
 - >> Optimum protection for sensitive sensors, up to 176°F (+80°C)
 - >> Compatible with sensor systems of most major brands
 - >> Maintenance-free cooling systems (thermoelectric effect)
 - >> Easy integration into existing measuring systems
 - >> Efficient cooling system.
- The installation of additional components, such as cooling systems with a 24V power supply, is not required
- >> Dramatically reduces downtimes and repair costs



SENSOR PROTECTION / COOLING

Thermoelectric Cooling and Optimized Energy Consumption



Typical TPCC® Applications

- >> Metal industry – particularly iron, steel and aluminum, e. g.,
 - >> Positioning and measuring of metal slabs
 - >> Automatic positioning of ladles above the furnace
 - >> Fill-level monitoring for molten metal
- >> Surface technology, e. g.,
 - >> Surface inspection of aluminum coils
- >> Glas and ceramics industry, e. g.,
 - >> Fill-level monitoring for molten glass
 - >> Glass thickness measurements
- >> Automotive industry
- >> Aerospace industry
- >> Paper industry
- >> Food industry
- >> General logistics, and many more

The TPCC® is fully customizable for any application. Talk to us about your individual requirements.

Mode of Operation

Thermoelectric effect

Specifications / Technical Data

- >> Protective industrial enclosure made of lightweight material provides excellent insulation properties
- >> Easy installation and alignment
- >> Operating temperature -4°F to 176°F (-20°C to +80°C); Models for up to -40°F (-40°C) are available for sensors that require integrated heating such as cold storage applications
- >> Cable connections – screw-type terminal block for ease of installation
- >> Dimensions (W x H x D):
9.41 x 12 x 13.74 inches (239 x 305 x 349 mm)
- >> Weight: 7 kg (15.43 lbs)
- >> Suitable for most industrial applications

Optional

- >> 24V/15A power supply
- >> Power supply cable

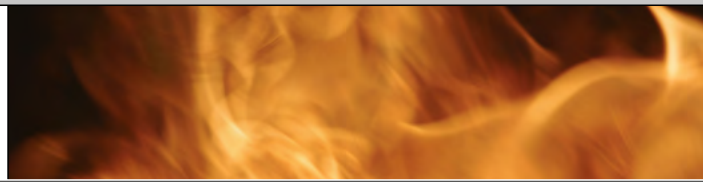
The TPCC® protects temperature-sensitive sensors



TPCC® receives prestigious award

The Thermo Protection Cooling Case (TPCC®), developed by PSI Technics, is a completely new industrial enclosure designed to protect temperature-sensitive sensors. PSI Technics was awarded the "Innovationspreis Success" (Innovation Success Award) by the Investitions- und Strukturbank Rheinland-Pfalz (ISB) for developing the TPCC®.





SENSOR PROTECTION / COOLING

Extensive Technical Know-how and Years of Experience Make the TPCC® Suitable for a Wide Range of Applications

TPCC® Sample Applications

Optical Data Transmission Systems	Optical Distance Meters	Scanners Barcode Reader	Cameras

And many more – Ready for use

TPCC® Models*

TPCC® / DM

Suitable for optical distance meters, e. g., DME5000, DS500 / DT500, DL100Hi, Dx1000



TPCC® / LMS400

Suitable for laser measurement system LMS400



TPCC® / T / DM

Suitable for optical distance meters, e. g., DML, DMT



TPCC® / OD

Suitable for optical data transfer systems, e. g., ISD230 / ISD260 / ISD280 / ISD300



TPCC® / VDM

Suitable for optical distance meters, e. g., VDM100, VDM70, VDM28



* Custom enclosure modifications are available upon request.

Additional Applications

- >> Radio receiver cooling system e. g., HBC radiomatic, FSE 516 / FSE 770
- >> Battery cooling case and more



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