

SAFE LINK with PCM Passive Cooling System

1 Application

for installation of small Designed devices (transmitters or electronic modules) with heat dissipation of 10 W or less to maintain the temperature of the electronics 10 K below the peak ambient temperature.

2 **Advantages**

- No energy or power supply required •
- Cost effective
- Maintenance free
- IP65 up to IP68, no fan or louvers to reduce the IP rating
- Very rugged design
- Solid state, no moving parts

3 Components

All components designed optimal are for performance:

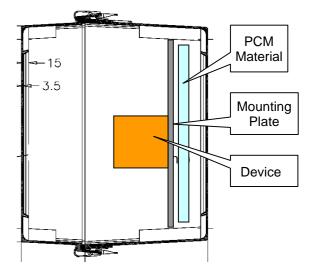
- 'Arctic PP' enclosures with excellent insulation properties and no heat sinks
- PCM (phase change material), a material that 'melts' and 'freezes' at 93 F/ 34°C and stores the resulting energy at this level
- Optimal installation: no heat sinks to ambient • conditions, good heat transfer between instrument and PCM due to heat conduction.
- Sun shade, not only on top of the enclosure, • but along sides, if necessary





4

Drawing (example)

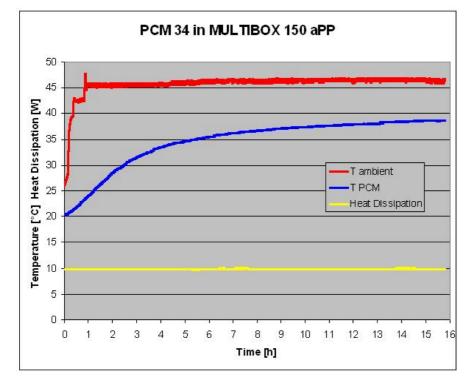


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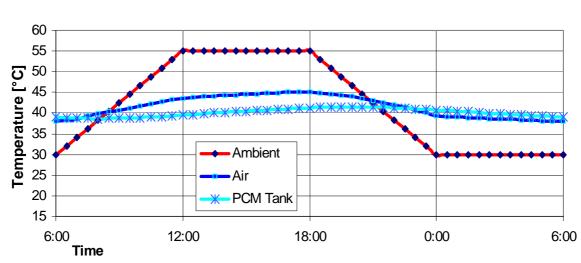
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5 Temperature Testing



5.1 Test Results: Test with 10 W heat dissipation

5.2 Computer Simulation, based on test results



INTERTEC SAFE LINK with PCM passive Cooling System , 10W heat dissipation