

210E Thermal Probe Multiplexer



The 210E Thermal Probe Multiplexer extends the thermal management capabilities of Lucent's Cabinet Power Systems (CPS) and adds multiple temperature sensors to the reserve batteries.

The 210E Thermal Probe Multiplexer (TPM) improves the sensitivity and accuracy and extends the range of coverage of the thermal management system in the CPS family of small battery plants.

Multiple Sensors

A single TPM module can increase the number of battery-stand thermal probes from four to 10, more than doubling the CPS4000 standard temperature-monitoring capabilities. Adding a second TPM module raises the number of monitoring points to 16.

Wide Temperature Range

Like the CPS, the TPM is well suited for applications in outside or uncontrolled environments, over the full operating temperature range of $-40~^{\circ}\text{C}$ to $+75~^{\circ}\text{C}$ ($-40~^{\circ}\text{F}$ to $+167~^{\circ}\text{F}$). At elevated temperatures, reliable thermal monitoring and control is essential to optimum system operation and extends battery service life as well.

Because they enable the monitoring of up to 16 points in battery stands, TPM modules are particularly beneficial in many PCS wireless applications, where more extensive battery systems are typically required.

Other CPS applications that can require more than four thermal probes include:

- Digital loop carrier cabinets
- Remote switching cabinets
- Broadband/CATV cabinets

Benefits

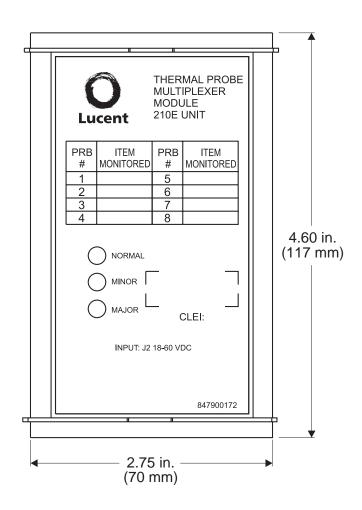
- Improves Thermal Management
 - Upgrades CPS sensitivity and thermal-control capabilities
 - Compatible with CPS thermalmonitoring processes
- Extends CPS Alarm Capabilities to Include:
 - Probe failure
 - TPM microprocessor failure
 - Loss of power to the TPM
- Easy Installation
 - Mountable in any convenient location adjacent to the CPS
 - Available with brackets for mounting on supplementary battery stands
 - Available with Velcro hook and loop sets for mounting directly to a CPS shelf or frame
- Safety/Standards Compliance
 - Complies with UL*-1950

Features

- Wide input voltage range from 18 Vdc to 60 Vdc
- Small size of 4.6 in. x 2.75 in. x 1.4 in.
- Three LED status indicators

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210E Thermal Probe Multiplexer Specifications	
Electrical and Thermal Specifications	
one to eight	
18 Vdc—60 Vdc (requires a fuse within the range of 0.5 A—1.33 A in the hot lead)	
50 mA at 27 Vdc, 25 mA at 54 Vdc	
± 3 °C at system ambient temperature range of 0 °C to 55 °C; ± 4 °C at system ambient temperature ranges of -40 °C to 0 °C and 55 °C to 75 °C	
−3 °C to +120 °C	
2 A at 30 Vdc or 0.3 A at 110 V	
−40 °C to +75 °C (−40 °F to +167 °F)	
4.6 in.	
2.75 in.	
1.4 in.	
<i>UL-</i> 1950	



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