[AN034]

AND Device Temperature Sensors

Version 2.0

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Static Electric Warning

TROUBLESHOOTING AND ADDITIONAL RESOURCES

Complete Support Site with User Guides & Help: http://www.anetdsupport.com/
Additional App Notes: http://www.anetdsupport.com/AppNotes
Customer Feedback Survey: http://www.anetdsupport.com/survey
AND Legal Disclaimer: http://www.anetd.com/legal

OVERVIEW

AND devices come equipped with several temperature sensors:

- The main controller board has one digital temperature sensor in its corner, U13.

- One or two display boards may connect to the main controller board. Each display board comes with an on-board digital temperature sensor in its corner, U14.

- The display board also includes a connector, J9, to which may attach an analog sensor -- either a thermistor used to measure remote temperatures, or a standard rheostat (variable resistor).

IP TEMPERATURE CHECK SETTINGS

On the web page interface, go to **Device Settings → Peripherals** for the *Temperature Check Setttings* section (see below).

Temperature Check Settings			help
Parameter	Stored value	New Value	
Controller Description			
Controller Temperature High (°F)			
Send SNMP Trap on Controller Temperature High	No	No ▾	
Controller Temperature Low (°F)			
Send SNMP Trap on Controller Temperature Low	No	No ▾	
Display Description			
Display Temperature High (°F)			
Send SNMP Trap on Display Temperature High	No	No ▾	
Display Temperature Low (°F)			
Send SNMP Trap on Display Temperature Low	No	No ▾	
Thermistor/Rheostat Description			
Thermistor/Rheostat Type	US Sensor 10k Thermistor	Type: US Sensor 10k Thermistor ▾ Parametric R: 10000 Beta: 3950	
Thermistor/Rheostat High Level (°F; or % for rheostat)			
Send SNMP Trap on Thermistor/Rheostat Value High	No	No ▾	
Thermistor/Rheostat Low Level (°F; or % for rheostat)			
Send SNMP Trap on Thermistor/Rheostat Value Low	No	No ▾	
Rheostat Change Level (%, for rheostat only)			
Send SNMP Trap on Rheostat Value Change	No	No ▾	
Thermistor/Rheostat 2 Description			
Thermistor/Rheostat 2 Type	US Sensor 10k Thermistor	Type: US Sensor 10k Thermistor ▾ Parametric R: 10000 Beta: 3950	
Thermistor/Rheostat 2 High Level (°F; or % for rheostat)			
Send SNMP Trap on Thermistor/Rheostat 2 Value High	No	No ▾	
Thermistor/Rheostat 2 Low Level (°F; or % for rheostat)			
Send SNMP Trap on Thermistor/Rheostat 2 Value Low	No	No ▾	
Rheostat 2 Change Level (%, for rheostat only)			
Send SNMP Trap on Rheostat 2 Value Change	No	No ▾	

POSSIBLE CONFIGURATIONS

Configuration	Controller	Display	Temp / Rheostat 1	Temp / Rheostat 2	SNMP Report
Controller Only / No Display	**Controller Board U13** Reported in SNMP Temp Sensor 1	Not Used	Not Used	Not Used	1 Temp Sensor 0 Rheostats
Controller Plus Single Display	Controller Board U13 Reported in SNMP Temp Sensor 1	Display Board U14 Reported in SNMP Temp Sensor 2	Display Board's Thermistor / Rheostat Connector Reported in SNMP Temp Sensor 3 if a Temp Sensor, or Rheostat 1 if a Rheostat	Not Used	3 Temp Sensors 1 Rheostats
Controller Plus 2 Displays / "Double Wide" Configuration (Connector "Display 0" connects to the left display and "Display 1" connects to the right display)	Controller Board U13 Reported in SNMP Temp Sensor 1	U14 on Right Display Board (Connected to "Display 1" Connector) Reported in SNMP Temp Sensor 2	Thermistor / Rheostat Connector for Display Board Connected to "Display 0" Connector (the left display) Reported in SNMP Temp Sensor 3 (for Temp Sensor) or Rheostat 1 (for Rheostat)	Thermistor / Rheostat Connector for Display Board Connected to "Display 1" Connector (the right display) Reported in SNMP Temp Sensor 3 (for Temp Sensor) or Rheostat 2 (for Rheostat)	4 Temp Sensors 2 Rheostats
Controller Plus 2 Displays / "Double Sided" Configuration (Both displays show the identical content at all times)	Controller Board U13 Reported in SNMP Temp Sensor 1	U14 on Display Board (Connected to Controller Connector "Display 0") Reported in SNMP Temp Sensor 2	Thermistor / Rheostat Connector for Display Board Connected to "Display 0" Connector Reported in SNMP Temp Sensor 3 (for Temp Sensor) or Rheostat 1 (for Rheostat)	Thermistor / Rheostat Connector for Display Board Connected to "Display 1" Connector Reported in SNMP Temp Sensor 3 (for Temp Sensor) or Rheostat 2 (for Rheostat)	4 Temp Sensors 2 Rheostats

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