

Troubleshoot/replace PT100

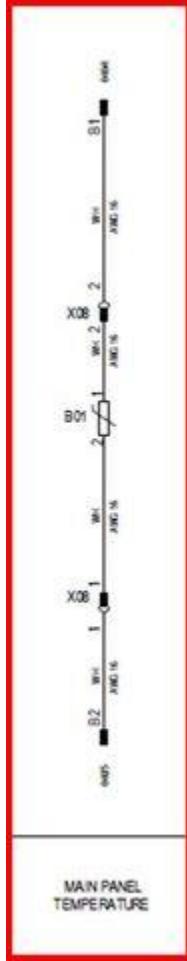
Does this solve the problem?

- 1] Yes
- 2] No
- 3] I don't know

- **Explanation**

Note the Main panel temperature reading in the TAC Controller.

Remove the PT100 wire connections from X08 terminals 1 & 2.



Use a multimeter to measure resistance across the wires, convert the resistance in Ohms to °c using the PT100 Temperature chart (DMS:0039-6203).



Compare the value to that taken from the turbine controller.

If the value matches that of the controller (or it is realistic and the controller value is not) the sensor is likely good.

If the measured value from the PT100 is unreal, the sensor has failed and must be replaced.

Relevant documentation	
Description	DMS No.
PT100 Resistance/Temperature chart	0039-6203

Relevant spare parts	
Description	Item No.
PT100 18042M Ø6x60mm	60009279

Inspect/replace filters

Does this solve the problem?

- [1\] Yes](#)
- [2\] No](#)
- [3\] I don't know](#)

• Explanation

Inspect the AT1 panel filters. If the filters are dirty or clogged, replace them.

**Relevant spare parts**

Description	Item No.
OUTLET FILTER 3326.207 MkV (60Hz)	092048
FILTER PAD FINE 500- 700M3/H (Filter without frame)	60097176
FILTER EXH 232x232x17.5MM (Filter with frame)	60014668

Inspect/troubleshoot panel fans**Does this solve the problem?**

- [1\] Yes](#)
- [2\] No](#)

3] I don't know

- **Explanation**

Manually operate the Main Panel fans in the TAC Controller. Check that the Main panel fan LED on the Tower TOI is ON and the panel fans are operational. If one of the fans is not operational, check that the supply is present at the fan and check the healthiness of the capacitor.

If capacitor value found zero or 50% lower than name plate, then replace the capacitor.

Relevant spare parts	
Description	Item No.
CAPACITOR 2.5UF 400V	29058241

The panel fans as well as the thyristor fans are supplied by the same 230VAC source.

If there is a fault in the power source circuit, both panel fans and thyristor fans will not operate. If a panel fan is found to be faulty, replace the failed fan.

Relevant spare parts	
Description	Item No.
FAN 500M3/H 230V	60014655
FAN 230V 500M3/H 323X323X125MM (MkV 60Hz)	60110934



- Check K06 - 24V relay for its proper functioning. If TOI output ok, then if fan is not running, then the problem might be due to 24V relay failure.

Relevant spare parts	
Description	Item No.
RELAY RT424730 8A 230V 2P	60004512

