

Troubleshooting - Guide for Thermostatic Control TC 400

SYMPTOM	PROBABLY CAUSES	CORRECTIVE ACTION
1. None of the indicating lamps are lit up	No power supply to the controller	Check fuse and power supply cable.
	No earth to the controller	Check earth connection of the controller
2. Alarm lamps are lit up, but the controller does not start in either on mode. Or in MAN/FAN mode	Faulty ON/OFF switch	MAN/FAN operates only when ON/OFF switch is in OFF position. See point 1. Change ON/OFF switch
3. Switch in on position FAN - lamp is indicating, but the FAN does not start	No FAN power supply No earth in brown cable	Repair brown cable. Replace controller. Use MAN/FAN for test after repairing. See point 2
	Faulty controller	Replace controller. Use MAN/FAN for test after repairing. See point 2
4. Switch in on position, gas lamp is lit up indicating ignition and gas is on. No gas flow.	Gas tube empty. Green/yellow cable from controller to valve solenoid is faulty. Faulty valve solenoid.	Replace controller. Replace cable. Replace valve solenoid. Test MAN/FAN. See point 2 - 3
5. Switch in on position. Gas lamp is lit up indicating ignition and open gas valve but no ignition occurs.	Faulty power supply to controller.	See point 1 - 2
	Faulty earth to controller. Faulty power to ignition coil. Faulty control cable. Faulty controller.	See point 1 - 2. Repair cable. Replace controller. Test MAN/FAN see point 2 - 3
6. Switch in ON. C lamp indicates reaching of temperature setpoint at cold speed or before setpoint is reached	Faulty sensor cable	Repair cable see point 8 Install a test plug, instead of the sensor. Adjust setpoint to 120 - 140 C. C lamp to be turned off. Gas and fan lamp indicate controller o.k. Or see point 10.
	Faulty sensor.	Replace sensor
	Faulty controller	Replace controller
7. Switch in ON position, one or more off alarm ignition lamps indicate alarm. The automatic shut down function occurs within 8 - 10 sec. Gas lamp for ignition and gas is turned on.	No spark in spark plugs. No earth to spark plugs. Bad connection to ignition coil. Faulty control cable or connected to earth. Faulty spark connector or spark plug.	Shut the gas valve. Repair earth to spark plug. Repair connection to the coil. Repair control cable. Replace spark - connector or spark plug. Replace controller. Test MAN/FAN. See point 2 - 3

8. Display indicates 250 C - 300 C	Faulty sensor cable. Sensor cable connected to earth or cables is short - circuited	See point 6. Display to indicate 120 C - 140 C. Test controller, see point 6 - 8
	Faulty sensor	Replace sensor
	Faulty controller	Replace controller
9. HV lamp lit (only controller suitable to 24 Volt).	To high voltage on master card	Replace controller
10. C lamp flashing, green lamp	Faulty sensor cable. Faulty sensor. Faulty controller.	Neutralise sensor alarm. ON/OFF switch in OFF position. Turn the MAN/FAN switch to MAN position in 2 sec. When the C lamp not will stop flashing, see point 6.