

Probe shows an incorrect temperature, 0°C, 85°C or no reading

What can this symptom mean?

If the temperature displayed by the controller is clearly unrealistic, there is no reading, 0°C appears, or a constant value of 85°C is shown, first check the probe and its connection. With DS18B20 digital probes, 85°C may appear briefly after power-up or when the sensor is not being read correctly. 0°C is not an error code by itself, but if it appears at room temperature it usually indicates a problem that needs checking.

What should be checked?

Disconnect the controller from the power supply. Check that the probe plug is fully inserted, that the pins are not bent, dirty or damp, and that the cable has not been cut, crushed or melted. If the controller has more than one probe input, swap the probes. If the fault follows the probe, the probe or its cable is most likely faulty. If it always affects the same input, check the socket and the controller.

Important

Do not try to correct an obviously wrong reading with a large calibration offset. Calibration is intended for small corrections of a correctly operating probe, not for masking a damaged cable, connector or sensor.