



There can be two scenarios: 1. No heating demand and 2. Heating demand.

Scenario 1: No heating demand (thermostat relay is OFF) – see number references to my explanation on the sketch below.

1. The internal Dry contact is OFF.
2. The USG measures a 19-24VDC signal from the thermostat terminal C.
3. Since the USG measures a 19-24VDC signal – the USG heating relay is OFF.

Scenario 2: Heating demand (thermostat relay is ON) – see number references on the sketch below.

1. The internal Dry contact is ON and short circuits terminal C and D on the thermostat.
2. Due to the short circuit, the USG measures no signal from terminal C on the thermostat.
3. The USG heating relay is ON.

TERMINAL CONNECTIONS: A from module to C from thermostat, B into D

Note: if polarity is not respected, then the module will always stay on.

