



**Underfloor Heating (UK)**  
Industrial - Commercial - Domestic

Deviguard Instructions

## Product Manual

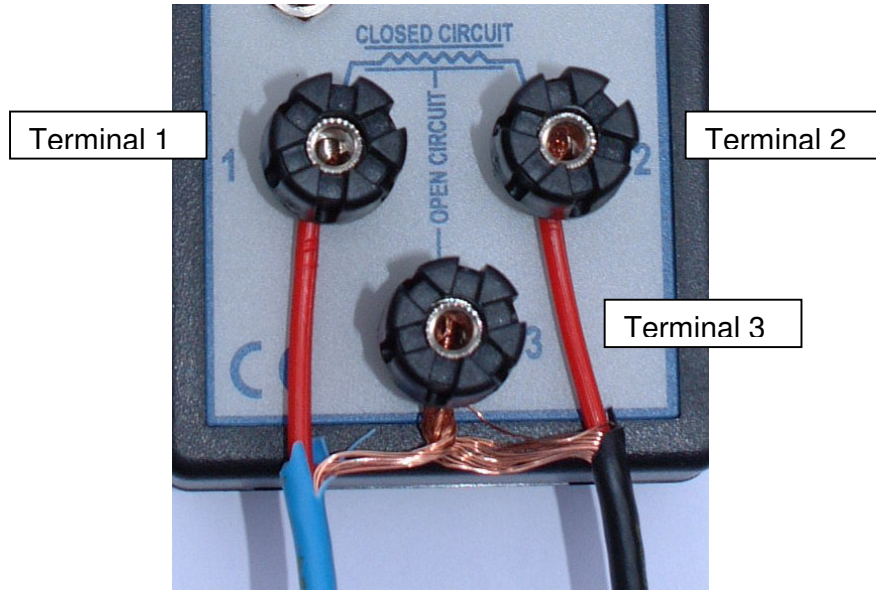
[www.underfloorheating-uk.co.uk](http://www.underfloorheating-uk.co.uk)

Edison House  
Unit 7, Edison Close  
Ransomes Europark, Ipswich  
Suffolk IP3 9GU  
United Kingdom

(t) 01473 27 66 77  
(f) 01473 27 66 78

## How to use the deviguard

### ONLY USE ONE CABLE/MAT PER DEVIGUARD



The deviguard has three terminals, the heating cable/mat should be connected as follows:

Terminal No.	Connected to
1	Either central conductor core
2	Either central conductor core
3	All earth screening of both cables

You can now turn the deviguard on.

Once switched on the deviguard will display one of the following modes:

	Top Light	Bottom Light	Status
A	Flashing Yellow	Off	Battery OK Element OK
B	Flashing Yellow	Constant Red	Battery OK Element damaged
C	Constant Yellow	Off	Battery low, replace battery
D	Off	Off	Battery discharged, replace battery
E	Constant Yellow	Constant Red	Battery Low Element damaged

When mode B or E is displaying, an audible alarm will also sound to alert you to a problem.

If the deviguard sounds and shows an error then work on the floor should be stopped immediately and the working area should be checked/investigated further for damage to the heating cable.

### Specification

Design alarm closed circuit	Resistance	>1,000 Ω
Design monitoring closed circuit	Resistance	< 600 Ω
Design alarm open circuit	Resistance	>100,000 Ω
Power	9V PP3 alkaline battery	
Battery life	With no fault, battery life should exceed 14 days continuous operation, this will be less should a fault be detected and the alarm sounds.	

**WARNING!**  
**NEVER CONNECT THIS INSTRUMENT TO A LIVE CIRCUIT**

# deviguard User Guide

## Wiring more than one heating element

It is possible to wire more than one heating element to the deviguard, but the following should be observed:

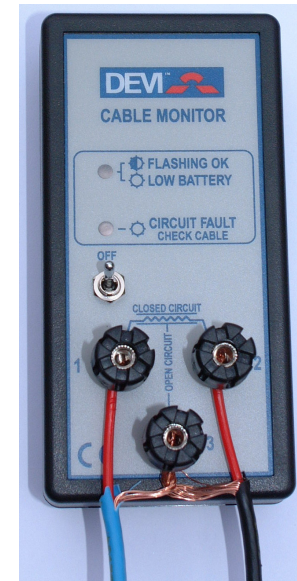
- The total resistance of the cable/mats being connected to the deviguard must not exceed 600Ω- see the mat labels to determine the total resistance.
- The cable/mats **MUST** be wired to the deviguard in **SERIES**. (But only when connected to the deviguard).

## Warranty

The deviguard is covered for a two-year period from date of sale against defects in materials and production. This warranty concerns product liability whereas matters in relation to legislation on sale of goods shall be referred to national law.

If this tester should fail to operate correctly, return it to your supplier stating the exact nature of the fault. Before returning the instrument check the battery is in good condition.

Electricity is dangerous and can cause injury & death. Always treat it with the greatest of respect and care. If you are not quite sure how to proceed, stop and take advice from a qualified person.



The deviguard is connected to the heating cable/mat to test the element before installation and can also be left monitoring the element until the floor/room is complete.

When using the deviguard to monitor the heating element, an alarm will sound should the Deviguard detect either one of the following:

- An open circuit element fault (the centre heating conductor has been cut)
- A short to the earth screen (the heating cable has been damaged causing the centre core conductor to touch the outer earth screening)

The deviguard will only detect the above faults, if the cable has been slightly damaged, for example a small nick in the cable, this may weaken the cable and a fault may develop later.