

DEVIreg™ 850 IV



The **DEVIreg™ 850** version IV is an advanced thermostat with LED

display used for outdoor ground or roof applications. The sensors provide information about both moisture level and temperature, resulting in an optimal control of the heating system. The DEVIreg™ 850 IV can handle up to 2 independent areas, in any of the following combinations:

- Single system for roof or ground (1 system, 1–4 sensors).

Combination system: 1 ground system and 1 roof system (2 systems, 2–4 sensors total, min. 1 sensor per system).

- Dual system: either 2 roof systems or 2 ground systems (2 systems, 2–4 sensors total, min. 1 sensor per system).

In the dual / combination systems it is possible to prioritize between the zones, e.g. if only a limited power output is available.

Benefits:

- Single, combination or dual zones
- Up to 4 sensors
- Moisture and temperature sensing
- Self diagnosing programme
- Safety level adjustment
- Alarm function

Standard compliance:

- EN/IEC 60730-1 (general)
- EN/IEC 60730-2-9 (thermostat)

Approvals:



| Type | Value |
|---|---|
| Operation voltage: PSU 24 VDC DEVIreg™ 850 IV | 180–250 VAC, 50–60 Hz / 24 VDC 24 VDC ±10% |
| Power consumption, max.: DEVIreg™ 850 IV Roof sensor Ground sensor | 3 W 8 W (each heating element) 13 W (each heating element) |
| Relay resistive load, max.: System A / B relay Alarm relay Inductive load each relay, max. | 15 A (3450 W) @ 230 V 2 A @ 230 V 1 A @ 230 V, power factor 0,3 |
| Sensing unit | DEVIbus™ connected moisture sensor(s) |
| Cable specification for connector terminals | Max: 1 x 4 mm ² or 2 x 2.5 mm ² |
| Ball pressure test temperature | 75 °C |
| Pollution degree | 2 (domestic use) |
| Controller type | 1 C |
| Storage temperature | -25 °C to 60 °C, 90% RH non-condensing |
| IP class | IP 20 |
| Protection class | Class II - □ |
| Dimensions (H/W/D): PSU 24 VDC DEVIreg™ 850 IV | 85 x 73 x 53 mm 85 x 105 x 53 mm |
| Mounting method | DIN rail |
| Weight | 720 g |
| Versions (languages) | Latin: GB, CZ, DE, DK, ES, EST, FI, FR, HR, HU, LT, LV, NL, NO, PL, SCG, SE, SI, SK, TR. Cyrillic: GB, BG, RU. |

Types: DEVIreg™ 850

| Product Code | Product name | Type | Size, mm | Ambient temperature |
|--------------|-----------------------------------|-------------------------------------|---------------|---------------------|
| 01-140F1084 | DEVIreg™ 850 IV Cyrillic with PSU | Without sensors, Cyrillic languages | 85 x 105 x 53 | -10...+50 °C |
| 01-140F1085 | DEVIreg™ 850 IV Latin with PSU | Without sensors, Latin languages | 85 x 105 x 53 | -10...+50 °C |

Accessories

| Product Code- | Product name | Type | Size, mm | Ambient temperature |
|---------------|--|--|---------------|---------------------|
| 01-140F1086 | Roof sensor for DEVIreg™ 850 | For DEVIreg™ 850, with sensor tube, cable - 15 m | 15 x 24 x 216 | -50...+70 °C |
| 01-140F1087 | Ground sensor for DEVIreg™ 850, 2 pcs. | For DEVIreg™ 850, with sensor tube, cable - 15 m | Ø 93 x 98 | -30...+70 °C |
| 01-140F1088 | Ground sensor for DEVIreg™ 850, 1 pc. | For DEVIreg™ 850, cable - 15 m | Ø 93 x 98 | -30...+70 °C |
| 01-140F1089 | Power Supply Unit | PSU CP-D 24/2.5 100-240VAC/24VDC DINrail | 54 x 90 x 55 | -10...+70 °C |
| 01-19119977 | Sensor tube and cap | For Ground Sensor DEVIreg™ 850 | Ø 93 x 98 | -30...+70 °C |

Make it easy,
make it DEVI



DEVIreg™ 850 IV with PSU



Roof sensor

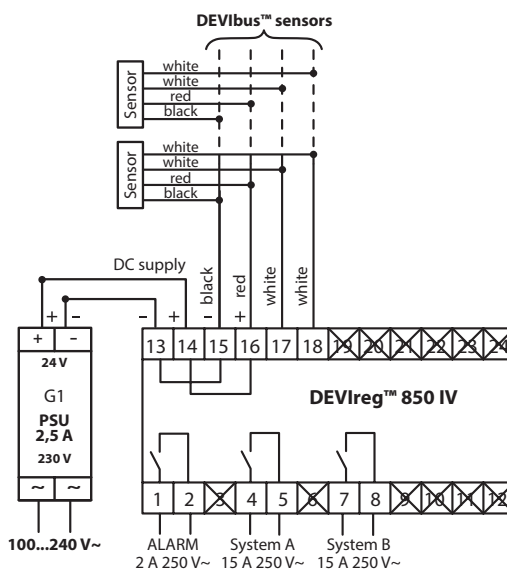


Ground sensor



Sensor tube and cup for Ground sensor

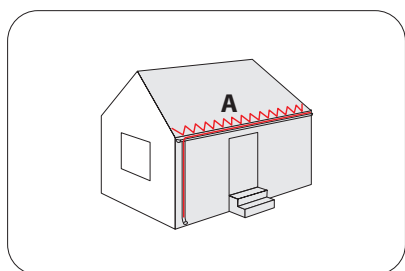
Connection scheme



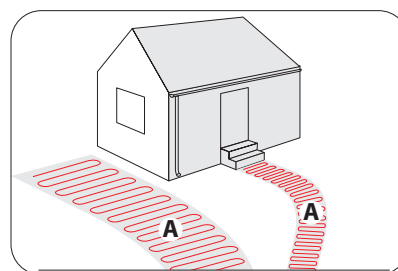
System configurations

Zone support saves energy

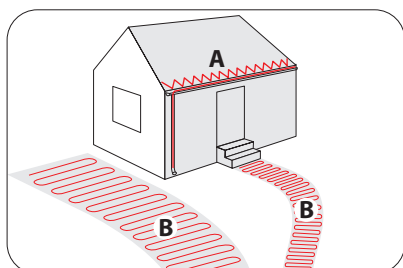
DEVIreg™ 850 lets you divide your area in to 2 zones, e.g. a North and South side. In this way it is possible to save energy, when the South side is free of ice and snow faster because of the heat from the sun.



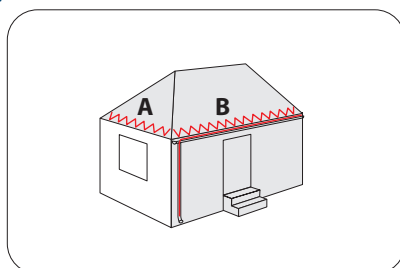
Single zone system for roofs (system A)



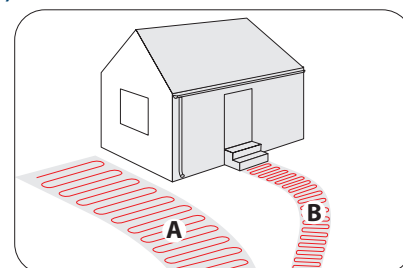
Single zone system for ground (system A)



Combined system - one zone for roof (system A), one zone for ground (system B)



Two zone system for roofs (systems A and B)



Two zone system for ground (systems A and B)