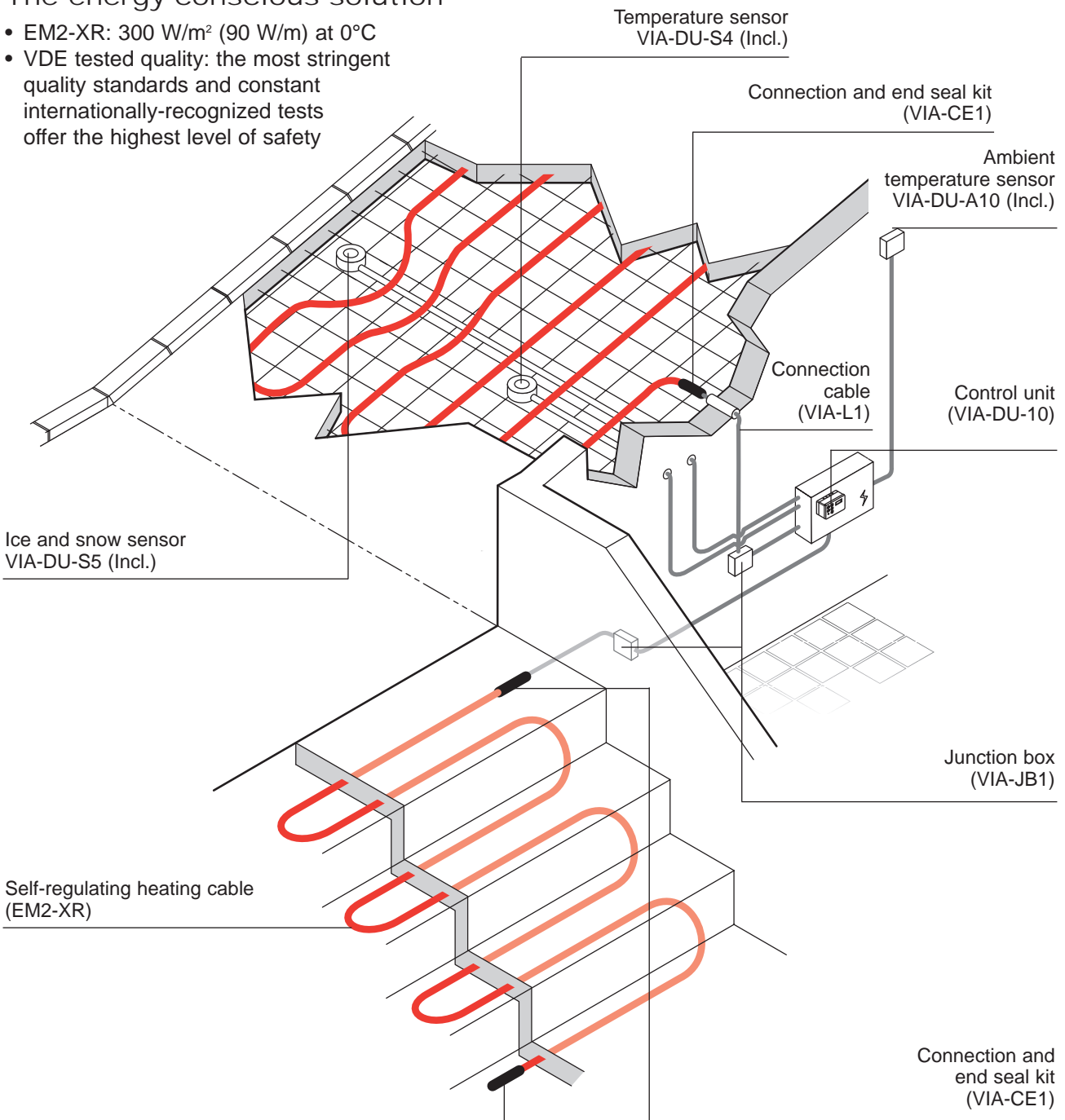


Self-regulating system to keep ramps, steps and footpaths free from snow and ice

- High reliability: ice and snow protection assures safer access
- Long service life
- Robust design

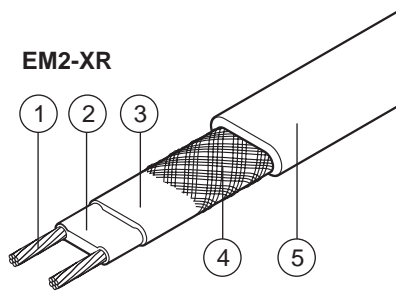
The energy-conscious solution

- EM2-XR: 300 W/m² (90 W/m) at 0°C
- VDE tested quality: the most stringent quality standards and constant internationally-recognized tests offer the highest level of safety



Application

Footpaths, ramps, steps, base,ment garages, loading platforms.



Cable type	EM2-XR
Control	VIA-DU-10
Rating	300 W/m ² (90 W/m) *

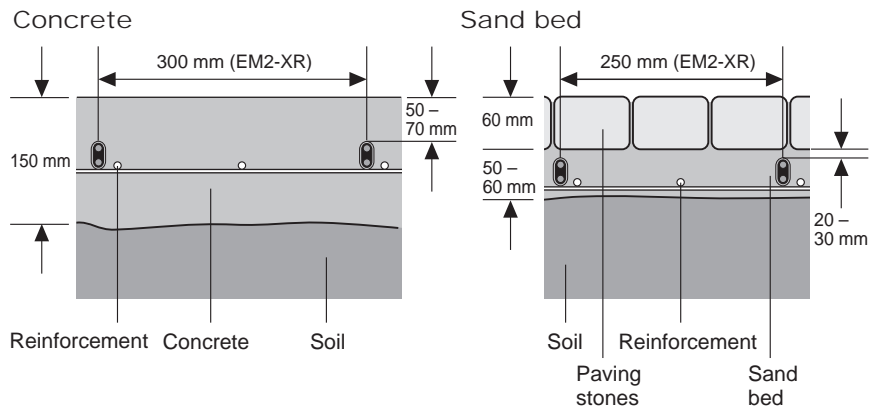
* At design stage: verify power at start-up temperature

- Unsuitable for direct use in poured asphalt.
- When laying in concrete with a coating of at least 20 mm, an asphalt layer of max. 40 mm can be applied on the concrete surface (max. 240°C)

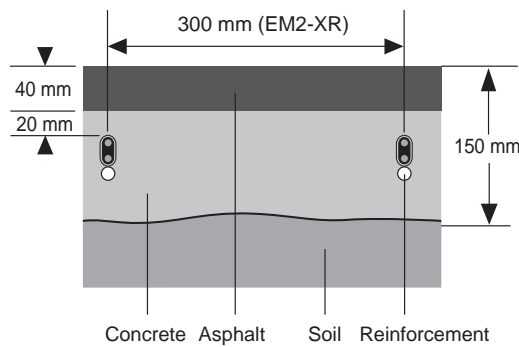
Composition

1. Copper conductor
2. Self-regulating heat element
3. Electrical insulation
4. Tinned copper braid
5. Protective jacket

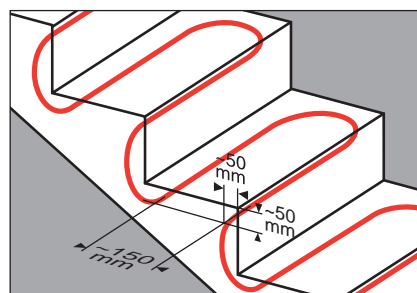
Cable spacing



Asphalt

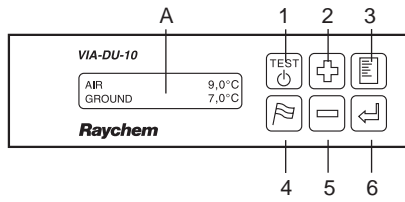


Concrete stairs



Control unit VIA-DU-20

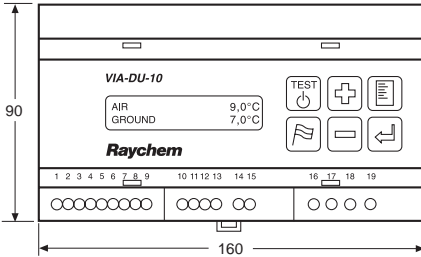
Layout



A. Display, illuminated (parameter and fault conditions)

1. Heater and unit test
2. Increase value, change settings (forwards)
3. Parameter menu
4. Language selection (D, GB, F, I)
5. Decrease value, change settings (backwards)
6. Enter

Technical Data



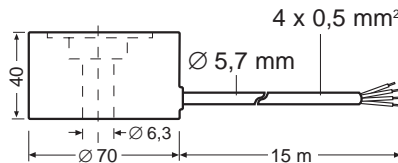
(Dimensions in mm)

Operating voltage	230 VAC, ± 10%, 50/60 Hz
Power consumption	14 VA max.
Protection class	II (in panel)
Main relay (heating)	I _{max} 4(1)A, 250 VAC, SPST, voltfree
Alarm relay	I _{max} 2(1)A, 250 VAC, SPST, voltfree
Switching accuracy	±1 K
Display	DOT-Matrix 2 x 16 characters
Mounting	DIN-rail
Housing material	Noryl
Terminals	0.5 to 2.5 mm ²
Ingress protection	IP20
Weight	750 g
Exposure setting	0°C to +50°C

Main parameters

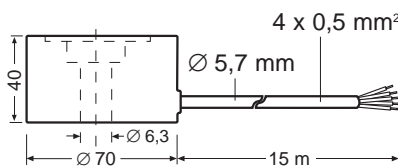
Temperature setting	0°C to +6°C
Moisture setting	Off, 1 (moist) to 10 (very wet)
Min. heating time	Off, 10 to 120 min (heating switched on)
Min. temperature	Off, -15°C to -1°C
Freezing rain precaution	Auto, Weather forecast, Off
Overruling	Off, On, BMS
Parameters are stored in non-volatile memory.	

Temperature sensor (non-heated, marked blue) VIA-DU-S4



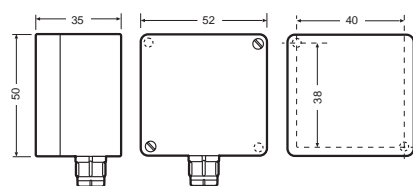
Sensor type	NTC
Ingress protection	IP65
Sensor cable	4 x 0.5 mm ² , Ø 5.7 mm
Sensor cable length	15 m, extension up to 50 m (4 x 1.5 mm ²)
Exposure temperature	-30°C to +80°C

Ice and snow sensor (heated, marked yellow) VIA-DU-S5



Operating voltage	8 V DC (from controller)
Sensor type	NTC
Ingress protection	IP65
Sensor cable	5 x 0.5 mm ² , Ø 5.7 mm
Sensor cable length	15 m, extension up to 50 m (5 x 1.5 mm ²)
Exposure temperature	-30°C to +80°C

Ambient temperature sensor* VIA-DU-A10



PG9
(Dimensions in mm)

Sensor type	PTC
Ingress protection	IP54
Terminals	1.5 to 2.5 mm ²
Sensor cable	2 x 1.5 mm ² , max. 100 m (not included)
Exposure temperature	-30°C to +80°C
Mounting	Wall mounting

* Installation not mandatory if "Sleet precaution" is not set to "Auto".