

MAGNUM ETN-4

Thermostat for MAGNUM Outdoor systems

An intelligent all-in-one solution for ice and snow melting suitable for any application which uses hydronic or electric heating. Optimal operation is ensured through output control, making the system both effective and economical. ETN-4 offers the possibility of snow melting - the green way.

MAGNUM has developed the ETN-4 controller for ice and snow melting on the ground and in gutters. Using readings from temperature and moisture sensors, the controller ensures economical control of power consumption while keeping outdoor areas and roofs free of ice and snow. The moisture sensor should be installed in the ground surface or placed in the gutter. As soon as moisture is detected in conjunction with low temperature, the ETN-4 controller activates the snow-melting system. Once the sensor has dried out, the thermostat immediately goes into afterrun and the system continues to provide heat for a set time.

An "all-in-one" thermostat with extended temperature control range, suitable for a wide range of applications. Easy to operate and programme.

The "all-in-one" thermostat comes with room sensing, room sensing and floor limitation, floor sensing mode only and regulator mode. If you need a thermostat for floor heating control, sauna, frost protection of pipes or cooling applications, the ETN4-1999 is an obvious choice.

Large differential temperature range

The thermostat has a large differential temperature range of 6°C, for either lowering the cycle time of the relay or specifically to reduce the number of start cycles.



Specifications

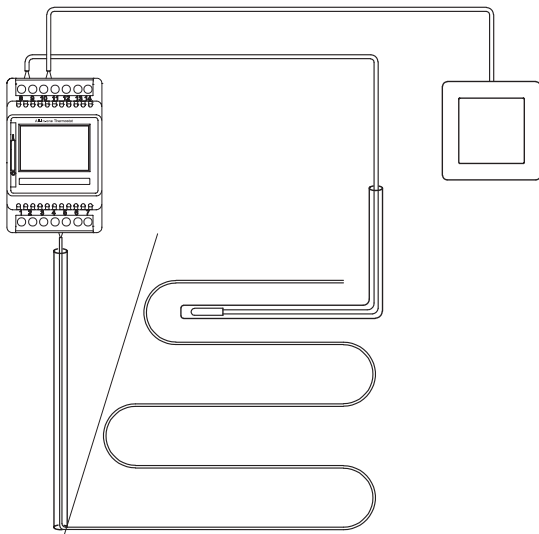
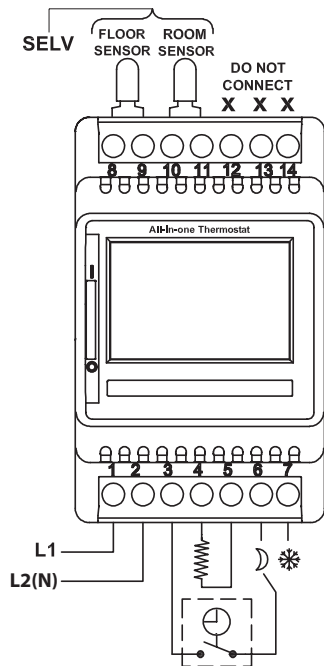
Supply voltage	230V AC ±10% 50/60Hz
Standby power	0,5 Watt
Output relay SPST	16A, resistive load or 1A inductive load
Interrupter	2-pole, 16A
Control temperature range (extended)	-19,5°C to +70°C
Control accuracy	±0,4°C
Floor limit range	-19,5°C / +70°C
Ambient temperature	-19,5°C / +55°C during operation
Night setback relative	-19,5°C / +30°C
Night setback regulator	1-100%
Frost protection Abs.	0°C - 10°C
Frost protection regulator	1-100%
Regulation principle	PWM/PI or ON/OFF
Housing	IP20
Sensor type	NTC (12 KΩ) 3 m max. 100 m
Display	Segment – backlit
Dimensions	88,5/52,9/57,3 mm (H/W/D)



Technical details

Functions:

- The "all-in-one" thermostat is perfect for the application types:
 - Electrical floor heating
 - Frost protection
 - Ice & Snow melting
 - Cooling
- Extended temperature range $-19,5^{\circ}\text{C}$ to $+70^{\circ}\text{C}$
- Input for night setback and frost protection
- Now also with cooling application invertible relay function and differential temperature
- Optimum safety due to built-in 2 pole 16 Amp interrupter
- Easy menu navigation and programming
- Programming is easy, ensuring the fastest and easiest set-up
- Big backlit display
- Delivered with new thin floor sensor, which makes mounting of sensor more comfortable than ever



Art.nr.	Description	Volt
892551	MAGNUM Thermostat ETN-4 Digital DIN-rail $-20^{\circ}\text{C}/+70^{\circ}\text{C}$ 16A	230V