

## MAGNUM ETO2-4550

### 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. ETO2 offers the possibility of snow melting - the green way.

MAGNUM has developed the ETO2 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 ETO2 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.

Complete watertight switch boxes manufactured and fitted according to the number of cables/mats and power. The system can be supplied in both 230V and 400V.

#### Functions:

- Temperature & humidity 3 x 16A - 230V
- Electronic on/off control up to 11kW
- 2 zone control, at the same time individually controllable
- Economic control, minimum energy consumption
- Adjustable moisture sensitivity
- Measurement of both temperature and moisture
- Control of hydronic or electric ice and snow melting systems
- Display and "turn-and-push" button for easy programming
- Language options



#### Specifications

Supply voltage	120 - 240 V $\pm$ 10%, 50 - 60 Hz
Temp. range (control)	-20°C / +50°C
Built-in timer for manual snow melting / afterrun	0 - 18 hours
Output relays	3 x 16 A potential-free relays
2-zone application	Via 2 x 16 A potential-free output relays
Hydronic system	Control of 3 or 4 way valve, primary pump, secondary pump
Display	Graphic, backlit
Temp. range (ambient)	0°C / +40°C
Temp. range (storage)	-50°C / +70°C
Housing / incl. cover	IP20
Weight	495 g
Dimensions excl. cover	90/156/45 mm (H/W/D)
Dimensions incl. cover	170/162/45 mm (H/W/D)
LED indication:	Green: ON Red: Error



## Technical details

### ETO2 4550 thermostat installation:

DIN-rail mounting in electrical cabinet, MAGNUM mounting box or on a wall surface.

### Suitable sensors for outdoor surfaces:

#### ETOG-56

The ETOG sensor is designed for embedding in the surface of the outdoor area. ETOG sensors measure ground temperature and moisture.



#### ETF-744/99

The ETF-744/99 sensor can be used for measuring rapid temperature drops.



### Suitable sensors for gutters:

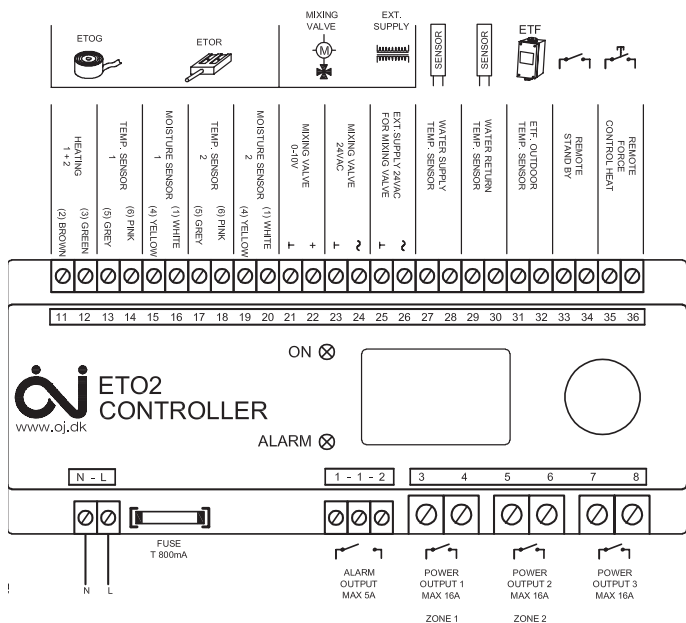
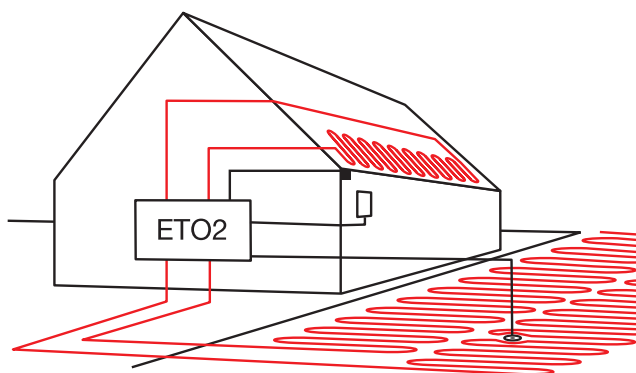
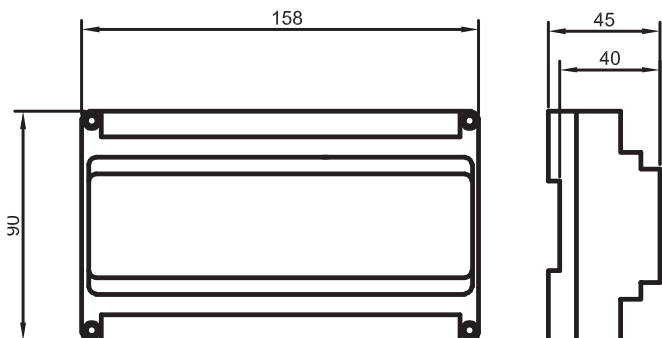
#### ETOR-55

The ETOR sensor is designed for installation in gutters, downpipes, etc. ETOR sensors detect moisture



#### ETF-744/99

The ETF-744/99 sensor can be used for measuring rapid temperature drops.



Art.nr.	Description	Volt
893550	MAGNUM Thermostat ETO2-4550 DIN-rail temp./moisture 3 x 16A	230V