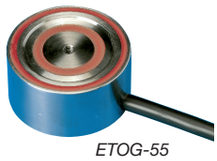
OJ Thermostat Range

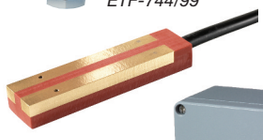
ETO2

ETO2-4550

ETF-744/99



ETOG-55



ETOR-55

ETO2-BOX
ETO2 Mountingbox

3 YEAR warranty

THERMOSTATS FOR SNOW MELTING

Intelligent control of ice and snow melting

An all-in-one solution for ice- and snow melting usable for all applications within hydronic as well as electrical heating. Optimal operation is ensured due to output control which makes the system both effective and economical.

- Electronic on/off control up to 11 KW
- 2 zone control, individually controlled at the same time
- Economical control
- Detection of temperature and moisture
- Display and “knob wheel” for easy programming
- Control of electrical or waterbased ice and snow melting systems
- Alarm relay for external signal
- Language options

PRODUCT PROGRAM

TYPE	PRODUCT
ETO2-4550	Thermostat incl. cover for surface wall mounting
ACCESSORIES	
ETOG-55	Ground sensor for detection of temperature and moisture, 10 m cable
ETOR-55	Gutter sensor for detection of moisture, 10 m cable
ETF-744/99	Outdoor sensor for detection of temperature
ETO2-BOX	UL-mounting box for ETO2

WE CANNOT CHANGE THE WEATHER - BUT WE DO CONTROL THE CONSEQUENCES

OJ has developed the ETO2 controller for ice and snow melting in gutters and ground areas.
Using readings from temperature and moisture sensors, the controller ensures economical control of power consumptions when keeping outdoor areas and roofs free of ice and snow. The moisture sensor is installed in the surface of the outdoor area or placed in the gutter. As soon as moisture is detected, the ETO2 controller activates the snow melting system. Once the sensor has dried out, the thermostat immediately switches off the heating system.

THERMOSTAT FUNCTIONS

For Gutters - ETO2-4550, ETOR-55 and ETF-744/99:
The sensor type ETOR is designed for mounting in gutters and down pipes etc. ETOR detects moisture, while ETF detects temperature. The snow melting system will be energized only when the outdoor temperature is below the selected setting and snow or ice occurs on the ETOR.

For Outdoor areas - ETO2-4550 and ETOG-55 is used:
The sensor type ETOG is designed for embedding into the surface of the outdoor area. ETOG detects ground temperature and moisture. The air sensor type ETF-744/99 can be used for measuring rapidly temperature decreases. The snow melting system will be energized only when the outdoor temperature is below the selected setting and snow or ice occurs on the ETOG.

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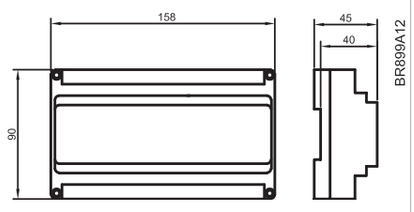
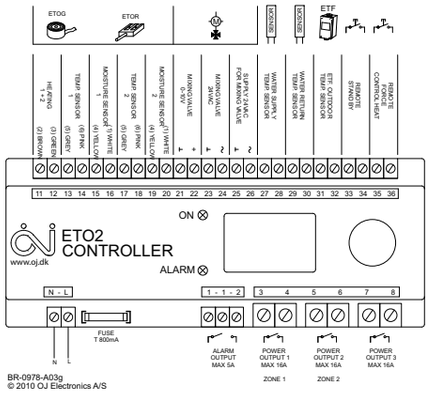
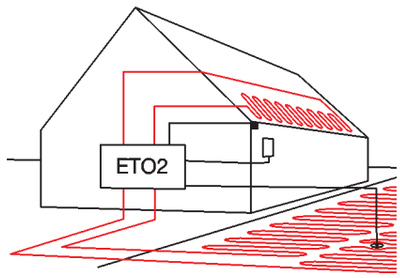
taking comfort further



Dimensions (mm)



Connections



Ground and roof application

Remote control:
It is possible to control the ETO2 from an external signal (day/week timer, GSM-module or other signal source)
The ETO2 can be switched on/off (standby) and the heating system can be forced on, in the after run time that has been set in the menu.

SENSORS

Ground sensor type ETOG:
Designed for embedding into the surface of the outdoor area. Detects temperature and moisture.
Up to two sensors type ETOG can be installed.

Gutter sensor type ETOR:
Designed for mounting in gutters and down pipes etc. Detects moisture only. Is mounted in combination with outdoor sensor ETF. Up to two sensors type ETOR can be installed.

Outdoor sensor type ETF:
Detects temperature. Is used in combination with gutter sensor ETOR, but can also be used separately only for temperature detection.
The outdoor sensor can also be used together with the ETOG sensor for outdoor areas. The outdoor sensor detects rapidly decrease in air temperatures avoiding icy areas.

MOUNTING

Mounting of thermostat ETO2:
DIN-rail mounting in switchboard, OJ-mounting box or on wall surface.

Mounting of ground sensor ETOG:
Is mounted where the worst snow and ice problems normally occur. The sensor is mounted on a hard foundation, in a concrete base, with the top of the sensor flush with the surface. Where an asphalt surface is used, it should be placed in a concrete recess.

Mounting of gutter sensor ETOR:
Is mounted in the gutter or down pipe on the sunny side of the building. The contact point of the sensor must be placed in the direction of flow of the melting water. Where necessary, it is possible to connect two sensors in parallel.

Mounting of outdoor sensor ETF:
Is mounted under the roof eaves on the north side of the building.

TECHNICAL DATA

Thermostat ETO2-4550:	
Supply voltage	120-240V ±10%, 50-60 Hz
Temperature range	0/+10°C
Built-in timer for manual snow melting / afterrun	0-6 hours
Output relay	3 x 16A potential free relay
2 zone application	Output is 2 x 16A potential free relay
Water based system	Controlling a 3 or 4 way valve, primary pump, secondary pump.
Display	Graphic and with backlight
Ambient temperature	0/+50°C
Housing / incl. cover	IP20
Weight	495 g
Dimensions excl. cover (H/W/D)	90/156/45 mm
Dimensions incl. cover (H/W/D)	170/162/45 mm
LED's indicate the functions:	
ON/Green	Supply voltage to the thermostat
Error/Red	Fault indication
Ground sensor ETOG-55:	
Detecting	Moisture and temperature
Mounting	Outdoor area
Housing	IP68
Ambient temperature	-20/+70°C
Dimensions	H32, Ø60 mm
Gutter sensor ETOR-55:	
Detecting	Moisture
Mounting	Gutter and down pipe
Housing	IP68
Ambient temperature	-20/+70°C
Dimensions (H/W/D)	105/30/13 mm
Outdoor sensor ETF-744/99:	
Detecting	Temperature
Mounting	Wall surface
Housing	IP54
Ambient temperature	-20/+70°C
Dimensions (H/W/D)	86/45/35 mm

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