OJ Microline®

ETN4-1999

3 YEAR warranty

THERMOSTATS FOR UNDERFLOOR HEATING

All-in-one Thermostat - For DIN Rail Mounting

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

- 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° to +70°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.

PRODUCT PROGRAMME

TYPE	PRODUCT
ETN4-1999	“All-in-one” thermostat for DIN Rail mounting incl. floor sensor
ETF-944/99-H	Remote room sensor
ETF-144/99T	Thin floor sensor
MM-7595	Electronic Day/Week timer for DIN Rail
ETNK	Cover box for wall

“ALL-IN-ONE” NOW MEANS MUCH MORE

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 choise.

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.

Galvanic Isolation
The new thin OJ sensor is of course supplied together with this thermostat. Furthermore, there is no restriction in using your current floor sensor even when from another supplier.

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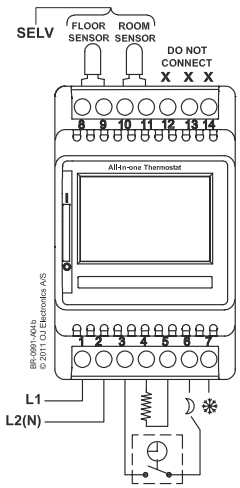
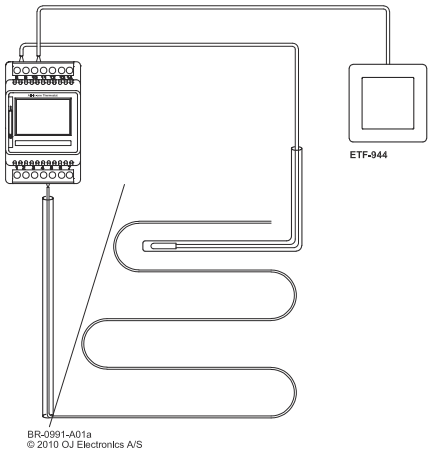
OJ ELECTRONICS
taking comfort further





Night Setback
The input for night setback can be set to increase and decrease the temperature.

The thermostat can also decrease the heating period in %, when set to regulator mode.

Frost Protection
The input for frost protection can be set in thermostat mode as well as in regulator mode.

Invertible Relay Feature
The relay function can be inverted so that the thermostat can be used for cooling applications. Here the variable differential, up to 6°C, is also an advantage.

Two External sensors
It is possible to attach two external sensors to the thermostat for controlling a room thermostat with a floor limit sensor, protecting expensive wooden floor coverings from overheating.

Two individual inputs for setback temperatures
The thermostat has built-in individual connectors for setting night setback and frost protection mode.

MODE	TEMPERATURE
NIGHT SETBACK	Lowering or increasing temperature by 10°C
FROST PROTECTION	Securing temperatures between 0 to +10°C

Connector for easy „daisy chain" of control wire.
The thermostat can easily be mounted and wired side by side due to the spare live connector.

Built-in 2 Pole Interrupter
The built-in interrupter gives the best safety, and according to local regulations in some countries an external interrupter can be left out.

TECHNICAL DATA

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 to +70°C
Control accuracy	±0,4°C
Floor limit range	-19,5/+70°C
Ambient temperature	-19,5/+55°C during operation
Night setback relative	-19,5/+30°C
Night setback regulator	1-100%
Frost protection Abs.	0-10°C
Frost protection regulator	1-100%
Regulation principle	PWM / PI or ON/OFF
Housing	IP20
Sensor type	NTC (12 KΩ) 3m. max. 100m
Display	Segment – backlit
Dimensions, (H/W/D)	88,5 / 52,9 / 57,3 mm

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