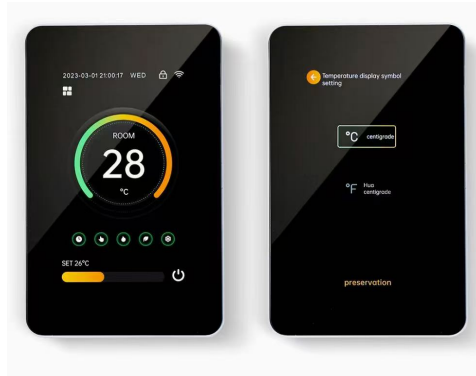


Underfloor Heating Controller

NS-UFH-01 / 4.3-INCH TOUCH DISPLAY / 16 A / WI-FI

Scheduled temperature control with app access and a colour display.



4.3-INCH DISPLAY

Portrait / landscape modes

WEEKLY SCHEDULING

Workday / rest-day programmes

APP CONTROL

2.4 GHz Wi-Fi / NETUS APP

TECHNICAL SPECIFICATIONS / HEATING CONTROLLER

Model / power supply	NS-UFH-01; 100-250 V AC, 50/60 Hz.
Display / interface	4.3-inch colour touch display; portrait / landscape layouts; six languages; °C / °F selection; adjustable backlight.
Load rating	16 A at 250 V AC.
Wireless / app	2.4 GHz Wi-Fi (2.400-2.483 GHz); NETUS APP; remote control and device sharing.
Temperature / accuracy	Room setting: 5-70°C; display accuracy: $\pm 1^{\circ}\text{C}$. Floor temperature limit: 20-70°C (factory default: 60°C).
Temperature control modes	Room temperature; floor temperature; dual control with room temperature as primary and floor temperature limiting.
Programming / memory	Manual, energy-saving and programmable modes; adjustable time / temperature periods for workdays and rest days; power-off memory.
Energy saving / protection	Energy-saving setpoint: 10-20°C (default: 16°C); selectable frost protection; child lock.
Calibration / floor sensor	Temperature correction: -6 to +6°C (default: 0°C). Floor sensor specification: NTC, 10 k Ω at 25°C, B = 3950.
Operating / storage conditions	Operating: 0-50°C; storage: -10 to +60°C.
Dimensions / mounting	Faceplate: 84 × 132 mm (W × H); front thickness: 14 mm; rear depth: 31 mm; mounting screw centres: 60 mm.

INSTALLATION & SYSTEM NOTES

Set the floor limit to suit the heating system and floor finish; the factory default is not a recommended floor temperature. Frost protection can call for heat while the controller is switched off. Refer to the installation manual for wiring.

Annual Energy Cost Example

SCHEDULED HEATING / ILLUSTRATIVE ASSUMPTIONS

Example for an electric underfloor heating load. All figures below are assumed for calculation and are not measured product performance or a current electricity tariff.

ILLUSTRATIVE NET ANNUAL SAVING

NZ\$174.74 / year

600 kWh less heating energy / year

After allowing NZ\$5.26 per year for controller electricity consumption.

CALCULATION ASSUMPTIONS

Heating load / electricity price	2.0 kW / NZ\$0.30 per kWh (illustrative flat rate).
Heating season	120 days per year.
Original schedule	Heating enabled 24 hours per day.
Timed schedule	06:00-09:00 and 17:00-22:00; 8 hours per day.
Heating duty cycle	25% actual energised time during enabled hours, assumed for both schedules before recovery energy.
Warm-up / recovery allowance	An additional 3.0 kWh per heating day for timed operation.
Controller consumption	2 W allowance, 24 hours/day, 365 days/year. Illustrative allowance; not specified in the ME80-B manual.

ANNUAL ELECTRICITY COST COMPARISON

Original operation	$2 \times 24 \times 25\% \times 120 = 1,440 \text{ kWh}$	NZ\$432.00
Scheduled operation	$(2 \times 8 \times 25\% + 3) \times 120 = 840 \text{ kWh}$	NZ\$252.00
Controller allowance	$0.002 \times 24 \times 365 = 17.52 \text{ kWh}$	NZ\$5.26
Net annual saving	$432.00 - 252.00 - 5.256$	NZ\$174.74

HOW TO INTERPRET THIS EXAMPLE

Saving = (original heating kWh - scheduled heating kWh - additional controller kWh) × electricity price. Controller consumption is counted in full; the original controller consumption is assumed to be zero.

Actual savings depend on insulation, weather, setpoints, floor thermal mass, warm-up time and frost protection. If recovery uses 1 / 3 / 5 kWh per day, this example saves NZ\$246.74 / 174.74 / 102.74 per year. Fixed electricity charges are excluded; no saving is guaranteed.