

User manual

NEXUS

HEAT METER



Dear Customer,
Thank you for choosing an NEXUS Heat Meter.
We guarantee that your heat meter is a reliable and technically sound product.
This manual provides detailed instructions and recommendations for proper installation, use and maintenance.
Remember to keep this manual in a safe place for future reference.
Your local Servicing Centre is at your complete disposal for all requirements.

INDEX:

General information	3
Safety regulations	3
Calorie counter	4
Features	4
Display	4
Room thermostat "MicroColtrol"	5
Description	5
Fitting the batteries	5
Setting time	5
Setting the temperatures	5
Select your daily program	6
Heating shutdown - Stand-by mode	6
A problem?	7
Characteristics	7

General information

Please read this manual carefully.

For additional information, please consult the "Installation Instructions".

Make sure to keep the manuals provided with the appliance so that they can be used by the end-user, installer or our authorised engineer.

Read the instructions and recommendations in these Installation carefully to ensure proper installation, use and maintenance of the appliance.

Keep this manual in a safe place. You may need it for your own reference while Servicing Technicians or your installer may need to consult it in the future.

This is a combined appliance for the production of central heating (C.H.) and domestic hot water (D.H.W.).

This appliance must be used only for the purpose for which it is designed.

The manufacturer declines all liability for damage caused by improper or negligent use.

Installation, maintenance and all other interventions must be carried out in full conformity with the governing legal regulations and the instructions provided by the manufacturer.

Incorrect installation can harm people and animals and damage property; the manufacturing company will not be held responsible for such damage.

The heat meter is delivered in a cardboard box. Once you have removed all the packaging, make sure the appliance is intact and that no parts are missing. If this is not the case, contact your supplier.

Keep all packaging materials (clips, plastic bags, polystyrene foam, etc.) out of children's reach as they are hazardous.

In the case of faults or failure, switch off the appliance. Do not tamper with the appliance.

















Always disconnect the appliance either by unplugging it from the mains or turning off the mains switch before cleaning the appliance or carrying out maintenance.

For repairs, call your local Authorised Servicing Agent and request the use of original spare parts. For in-guarantee repairs contact MTS (GB) Limited.

Turn the heat meter off and move the external switch to "OFF" to clean the exterior parts of the appliance. Clean with a damp cloth dipped in soapy water. Do not use aggressive detergents, insecticides or toxic products.

Safety regulations

Key to symbols:

-  Failure to comply with this warning implies the risk of personal injury, in some circumstances even fatal
-  Failure to comply with this warning implies the risk of damage, in some circumstances even serious, to property, plants or animals.
Do not perform operations which involve opening the appliance.
-  Electrocutation from live components.
Personal injury caused by burns due to overheated components, or wounds caused by sharp edges or protrusions.
Do not perform operations which involve removing the appliance from its installation space .
-   Electrocutation from live components.
Flooding caused by water leaking from disconnected piping.
Explosions, fires or intoxication caused by gas leaking from disconnected piping.
-  **Do not damage the power supply cable.**
Electrocutation from live uninsulated wires.
Do not leave anything on top of the appliance.
-  Personal injury caused by an object falling off the appliance as a result of vibrations.
Damage to the appliance or items underneath it caused by the object falling off as a result of vibrations.
Do not climb onto the appliance.
-   Personal injury caused by the appliance falling.
Damage to the appliance or any objects underneath it caused by the appliance falling away from its installation space.
Do not climb onto chairs, stools, ladders or unstable supports to clean the appliance.
-  Personal injury caused by falling from a height or cuts (step ladders shutting accidentally).
Do not attempt to clean the appliance without first switching it off and turning the external switch to the OFF position.
-  Electrocutation from live components.
Do not use insecticides, solvents or aggressive detergents to clean the appliance.
-  Damage to plastic and painted parts.
Do not use the appliance for any use other than normal domestic use.
-  Damage to the appliance caused by operation overload.
Damage caused to objects treated inappropriately.
Do not allow children or inexperienced individuals to operate the appliance.
-  Damage to the appliance caused by improper use.
If you detect a smell of burning or smoke coming from the appliance, disconnect it from the electricity supply, turn off the main gas valve, open all windows and call for assistance.
-  Personal injury caused by burns, smoke inhalation, intoxication.
If there is a strong smell of gas, turn off the main gas valve, open all windows and call for assistance.
-  Explosions, fires or intoxication.

Calorie counter

The self-powered electronic calorie counter makes it possible to measure the energy consumption of heating and domestic hot water systems.

Features

Acquisition of data relating to heating energy consumption, through the measurement of the flow rate and the difference in temperature between the fluid flow and return conditions.

Display

The calorie counter has a display which can be used to view stored data, immediate data and the codes of any errors which may have occurred.

The display offers three levels:

- Aktuell (current)
- Monat (month)
- Info

The appliance uses self-diagnosis to identify any problems which may arise.

Problems are divided into two categories:

- Temporary problems: these do not affect the operation of the appliance.

In this case, the display flashes for 32 seconds, then reverts to normal operation.

- Serious problems: these prevent the appliance from operating.

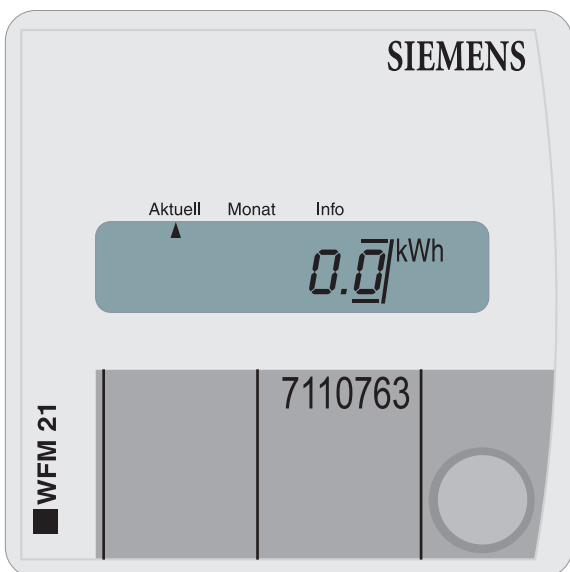
In this case, the display alternates between showing the error code and the date on which it occurred for the first time.

The measurement values recorded up to that moment remain stored in the memory.

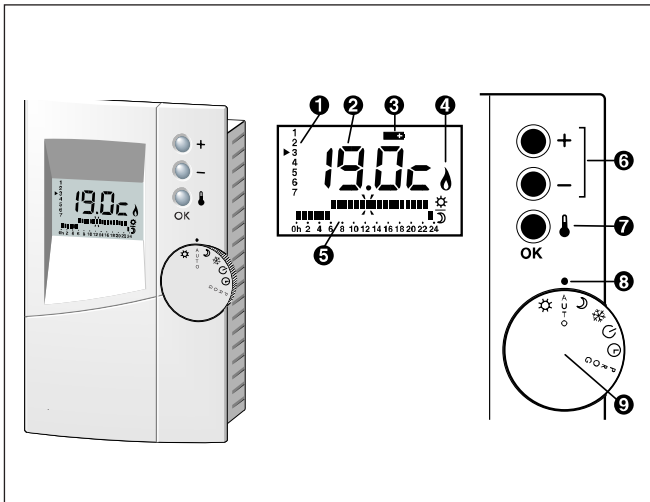
To scroll through the display levels, press and hold the button.

To scroll through the data at each level, press the button briefly.

AKTUELL <i>(current)</i>	MONAT <i>(mounth)</i>	INFO <i>(information)</i>
energy consumed since the most recent reading	energy consumed since the previous year	immediate flow rate data
total circulated volume	energy consumed in the last 13 months	flow temperature, return temperature
segments check		flow/return ΔT
energy consumed since a particular day		immediate power value
total circulated volume since a particular day		total hours of operation
serial/customer number		day given as a reference point (reading)
test number		value and date of the maximum flow value and date
		value and date of the maximum temperature
		serial/customer number
		identification number (BUS address)
		SW version
		factory number (serial/customer)



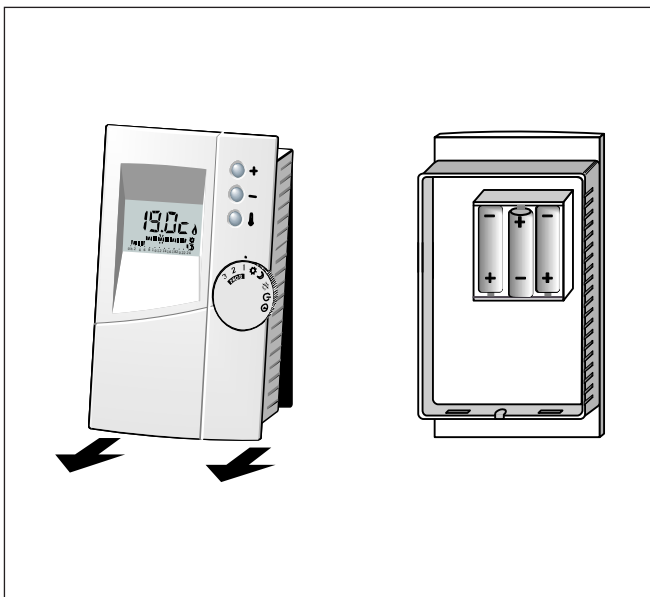
- A display
- B data plate
- C button



Roomthermostat "Microcontrol"

Description

- ❶ Actual Day
- ❷ Temperature display
- ❸ Low battery indicator (Battery version)
- ❹ Heating output status (🔥 = On)
- ❺ Daily program profile (⚙️ = Comfort, 🌙 = Economy)
- ❻ Modification Keys
- ❼ Press to display the measured
- ❽ Selector switch index
- ❾ Operating mode selector (7 positions)



Fitting the batteries (Battery version)

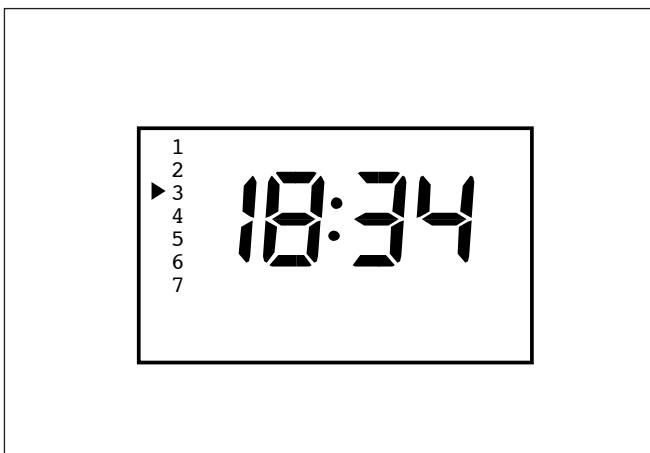
Three type LR03 or AAA1,5V alkaline batteries (life time longer than 1 year).
Do not use rechargeable batteries.

To fit the batteries, separate the thermostat from its base. Insert the batteries, making sure they are the right way round, then mount the thermostat back on its base.

Battery replacement:

When the low battery indicator comes on, do not leave the discharged batteries in the thermostat (the guarantee does not cover damage caused by leaking batteries).

You have approximately 1 minute to fit the new batteries without losing your programming.



Settings the time

Turn the selector to the position.
The time is adjusted by pressing or .

Short press: change in 1-minute steps
Press and hold: fast change

Settings the temperatures

Setting the frost-protection temperature

First use: Frost protection = 7°C

- 1 - Switch the selector to
- 2 - or set the temperature (5 to 15°C)

Setting the Economy temperature

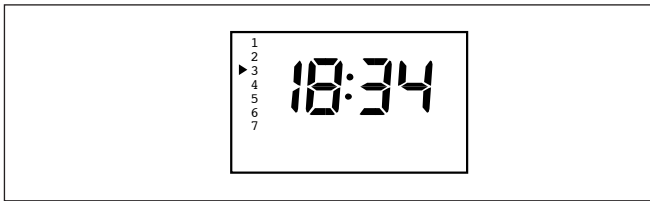
First use: Economy = 16°C

- 1 - Switch the selector to
- 2 - or set the temperature (5 to 30°C)


Setting the Comfort temperature

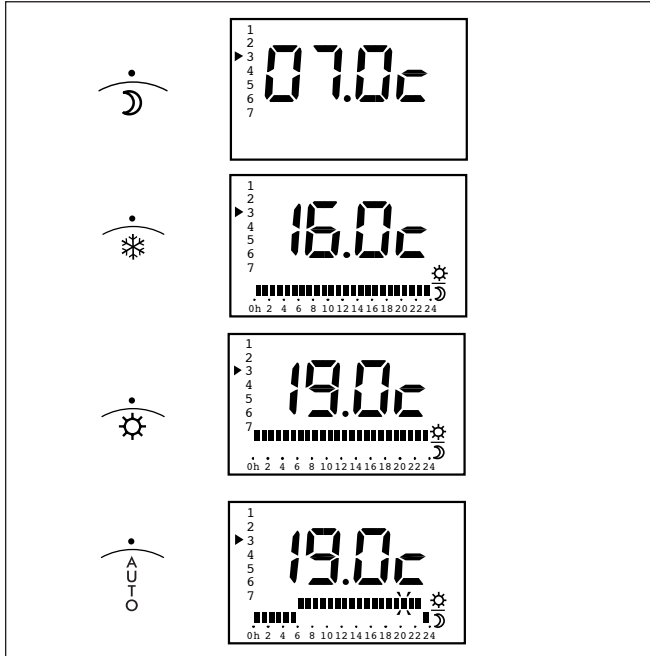
First use: Comfort = 19°C

- 1 - Switch the selector to
- 2 - or set the temperature (5 to 30°C)







Measured temperature display

Press the  key.
The value of the room temperature is displayed.




Select your daily program

You have 4 pre-set programs. You can select one of them by turning the selector switch.



-  Permanent Frost protection (adjustable from 5 to 15°C)
-  Permanent Economy (adjustable from 5 to 30°C)
-  Permanent Comfort (adjustable from 5 to 30°C)
-  AUTO, Comfort from 6 to 23 hours for all the week

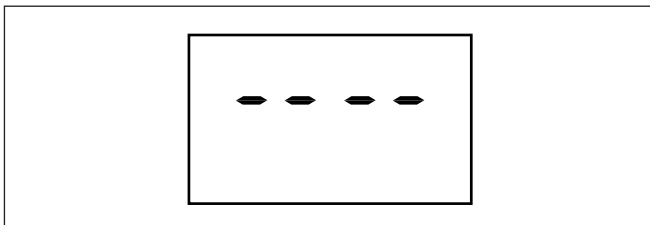
How to adjust the weekly program

-  - Turn the selector on PROG; temperature disappears from the display, the first day program is displayed and its timeline flashes.
- press the (+) button to set comfort conditions on the selected time unit or (-) button to set economy conditions on the same period.


Repeat operation for every time unit and then for all week days

Once programming is completed turn the selector on pos. AUTO


Note: for ,  and AUTO modes the temperature displayed is reference temperature for current period.



Heating shutdown - Stand-by mode

The thermostat is switched to stand-by mode in periods when heating is not required. Switch the selector to position . The thermostat displays four dashes.

Problems?

Problem	Diagnosis/Solutions
The symbol  appears:	The batteries are discharged. Replace the batteries (see pag. 5).
Nothing is displayed on the screen:	No power supply: replace the batteries or check their polarities (direction)
Hot water heating: The temperature of the room does not reach the desired value set on the radiator	Check that the value set on the thermostat is higher (by 2 or 3°C) than the radiator setting.
The whole display blinking:	The apparatus has just been switched on. Check and if necessary adjust the clock and the temperatures, otherwise press the a key.

Characteristics

- Operating mode selection switch (7 positions)
 - Choice of 3 permanent temperatures :Frost Protection, Economy and Comfort and 1 customized program per day
 - The 3 temperature settings can be adjusted :5° to 30°C for Economy and Comfort 5° to 15°C for Frost protection
 - Proportional-plus-integral control (category B), time base 15 min.
 - Stand-by mode
 - Digital display
 - Room case : 128 x 85 x 31 mm
 - Wall mounting
 - Protection index : IP30
- Battery version:**
- Three type LR03 or AAA1,5V alkaline batteries (lifetime longer than 1 year)

Elco Italia S.p.A.

Via Roma, 64
31023 Resana (TV)