SALUS CONTROLS

C.H. PUMP CONTROLLER
Model: NPC1B



MULTI-LANGUAGE MANUAL

QUICK GUIDE

MANUFACTURER:
SALUS Controls plc,
Units 8-10,
Northfield Business Park,
Forge Way, Parkgate
Rotherham, S60 1SD, UK

IMPORTER:
Salus Controls
European Distribution sp.z o.o.
ul. Szamocka 8, piętro 6.,
01 748 Warszawa,
Poland

PL: poland@saluscontrols.com
UK: tech@salus-tech.com
RO: tehnic@saluscontrols.ro
DE / NL: info@salus-controls.de
FR: technicalsupport@saluscontrols.fr
DK: Support@salus-controls.dk

Computime

ISO 9001 QUALITY MANAGEMENT 0015

www.saluscontrols.com

SALUS Control is a member of the Computime Group.
In line with its policy of continuous product development, SALUS Controls reserves the right to change the specifications, design and materials of the products listed in this brochure without prior notice.

10/2026

Introduction

The NPC1B controller is designed to control a water pump in a central heating or domestic hot water circuit, or to act as a safety thermostat. The controller allows the user to set both the pump's start and stop temperatures. The pump will start when the user-set temperature 'C' is exceeded, and will stop when the set stop temperature 'U' is exceeded.

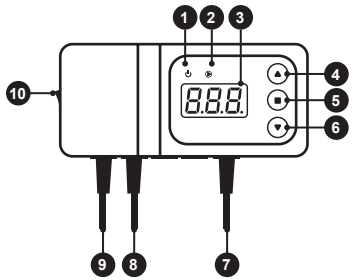
Product compliance

This product complies with the following European directives: GPSR 2023/988/EU, EMC 2014/30/EU, LVD 2014/35/EU, RoHS 2017/2102/EU, and SVHC 251. The full text of the EU Declaration of Conformity is available at the following web address: www.saluslegal.com
PN-EN 60730-1:2016-10+A1:2019-07+A2:2022-10
PN-EN IEC 60730-2-9:2019-06+A1:2019-06+A2:2021-01
PN-EN 61000-3-2:2019-04+A1:2021-08
PN-EN 61000-3-3:2013-10+A1:2019-10+A2:2022-04
PN-EN 50419:2023-05
PN-EN IEC 63000:2019-01

Safety information

Use in accordance with the regulations in force in your country and within the EU. The device must be used for its intended purpose.
It must not be used in conditions where water vapour condensation occurs, nor must it be exposed to water.
This product is for indoor use only.
The controller must be installed by a qualified person, in accordance with the regulations in force in the relevant country and within the EU. Before carrying out any work involving the power supply (connecting cables, installing the device, etc.), ensure that the controller is not connected to the mains! Incorrect connection of cables may damage the controller.

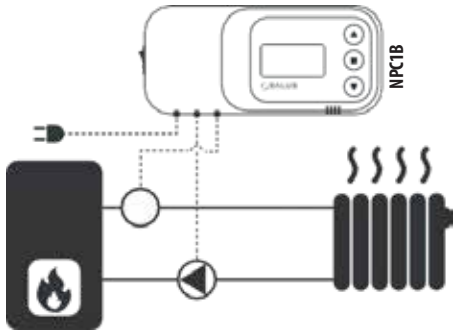
Product description



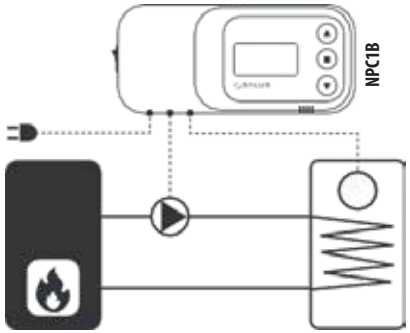
1. Power supply indicator
2. C.H. pump operation indicator
3. Display
4. Increasing setpoint temperature or value (+)
5. Menu button
6. Decreasing setpoint temperature or value (–)
7. Temperature sensor
8. Pump power supply
9. Controller power supply
10. ON/OFF power supply switch

Wiring diagram

1. Central power supply

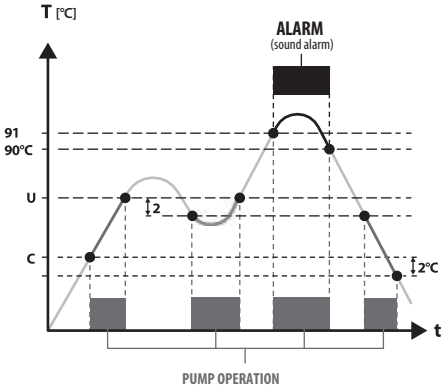


2. Domestic hot water or safety thermostat



Note

U – the pump switches off above this temperature
C – the pump is switched on above this temperature



Controller operation

You can change the pump start-up temperature setting by pressing the MENU button. The letter 'C' will appear on the display. You can now adjust the temperature setting using the + or – buttons.
After a few seconds, the controller will return to normal operating mode and display the measured temperature.

You can change the pump cut-off temperature by pressing button twice (options menu). The 'U' setting follows the 'C' setting. The letter "U" will flash on the display. At this point, you can change the set "U" temperature using the + or – buttons. After a few seconds, the controller will return to normal operation and display the measured temperature.

Manual mode

This function allows you to check whether the pump is working correctly. The pump will start when you press the MENU and – buttons simultaneously.
To stop the pump, press the same buttons again.

Histeresis

This is the difference between the temperature at which the controller starts the pump and the temperature at which it stops it. The controller has a fixed hysteresis of 2 °C.
For example:
1. When parameter 'C' is set to 30 °C, the pump starts when the measured temperature exceeds 30 °C and stops when the measured temperature falls below 28 °C.

2. When parameter 'U' is set to 50 °C, the pump will stop when the measured temperature exceeds 50 °C and will start when the measured temperature falls below 48 °C.

Additional features

The controller also features functions designed to prevent the pump from becoming blocked. The 'anti-stop' function protects against limescale build-up outside the heating season.

The pump runs for 15 seconds every 14 days. Another safety feature is the 'anti-freeze' function, which keeps the pump running continuously when the temperature measured by the sensor drops below 5°C.

Alarm

The temperature controller is fitted with an alarm that is triggered when the temperature detected by the sensor exceeds 90 °C.

Technical specifications

Input rated voltage	230 V / 50Hz ±10%
Rated frequency	2 W
Working temperature	-10 / +50°C
Max load of the pump output	6 A
Temperature measurement range	0 - 99°C
Setpoint temperature range	5 - 80°C
Sensor temperature range	–10 – 120 °C
Sensor cable length	1,2 m