NARVI

Logi Controller

INSTALLATION AND MAINTENANCE INSTRUCTIONS

CONTROLLER AND SENSORS

ver. 1.10ENG

INSTALLATION AND MAINTENANCE INSTRUCTIONS FOR NARVI LOGI CONTROLLER

Installation requirements:

The controller should be installed in dry indoor spaces (IP20 rating). The ambient air temperature at the installation site should not exceed 30°C. Local regulations and standards must be followed when selecting the installation location.

Controller dimensions:

Enclosure external dimensions:	Width: 410 mm
	Height: 650 mm
	Depth: 160 mm
	Weight: 13 kg
Mounting hole distance:	Width: 340 mm
	Height: 620 mm

Installation Site:

The installation site must be stable and even. A minimum clearance of 100 mm must be left on both sides, as well as above and below the controller. Ensure proper air circulation around the unit during operation. Ventilation openings are located on both sides of the controller.

The internal temperature of the enclosure must not exceed 50°C during operation. If the ambient temperature is high, airflow around the unit must be increased.

Mounting the Controller:

The controller to be mounted on a wall or a suitable bracket using screws (4 pcs, mounting hole diameter 9 mm) through external wall brackets. Fasteners should be selected according to the wall material and installation conditions.

Cabling:

Sensor Cabling:

Refer to the sensor installation instructions on page 5.

Main Power Circuit Cabling:

Cable size should be selected according to the heater size and local regulations/standards. The supply and output terminals of the Controller are rated for a maximum cable size of 16 mm^2.

Ethernet Connection:

Ethernet cable should be connected to the RJ45 connector located at the bottom of the unit, linking it to the internal network or another control device.

Cable Installation:

The bottom of the enclosure features grommet seals for cables. Grommet seals for main power circuits are suitable for cables with a diameter of 18-25 mm. These seals also act as strain reliefs and must be tightened after cable installation.

Maintenance:

Maintenance should be performed only by a qualified electrician or a trained individual. Before starting maintenance procedures, ensure that the Controller is de-energized by measuring. Prevent voltage connection during maintenance.

Maintenance Procedures Every 6 Months:

- Visual inspection
- Vacuuming/cleaning the unit if necessary
- Tightening main power circuit connections with a torque wrench to 4.0 Nm
- Tightening circuit breaker connections with a torque wrench to 2.8 Nm

Warranty:

The controller has a warranty period of 18 months. The warranty does not cover faults resulting from neglected maintenance or improper use/installation.

Additional Notes:

Local regulations and standards must be followed during the installation of the controller. Installation should only be carried out by a qualified electrician in compliance with applicable regulations and standards.

SENSOR INSTALLATION INSTRUCTIONS

Waterproof (IP55) temperature sensors and overheat protectors are installed inside the sauna. Sensor enclosure 1 contains a resettable overheat protector that trips at 115°C. Sensor enclosure 2 contains a fusible overheat protector that melts at 128°C.

Sensor Enclosure Dimensions:

Enclosure external dimensions:	Width: 75 mm
	Height: 80 mm
	Depth: 58 mm
Mounting hole distance:	Width: 63 mm
	Height: 52 mm

Sensor Mounting:

Sensors are mounted using screws (2 pcs per sensor) through the mounting holes of the sensor enclosure. Fasteners should be chosen based on wall material and installation conditions.

Sensor Cabling:

Heat-resistant SIHF-C-SI 7G 0.5 silicone cable or equivalent. It is recommended to route the cable from the sensors to the control unit without additional connections. Sensor connections should be made according to the electrical diagrams.

Sensor location:

Sensors should be installed near the heater, preferably on opposite sides of the heater.

If the heater is near a wall, sensors can be installed 100 mm below the ceiling **(Figure 1).**

If the heater is not near a wall, install the sensors on the sauna ceiling within the designated area **(Figure 2).**

Do not install sensors near doors, windows, or other cold surfaces. Maintain a distance of 1000 mm between the sensor and the supply air vent. If the vent is directional and air is directed away from the sensor, the sensor can be installed 500 mm from the vent.

Figure 1: Sensor Placement on the Wall

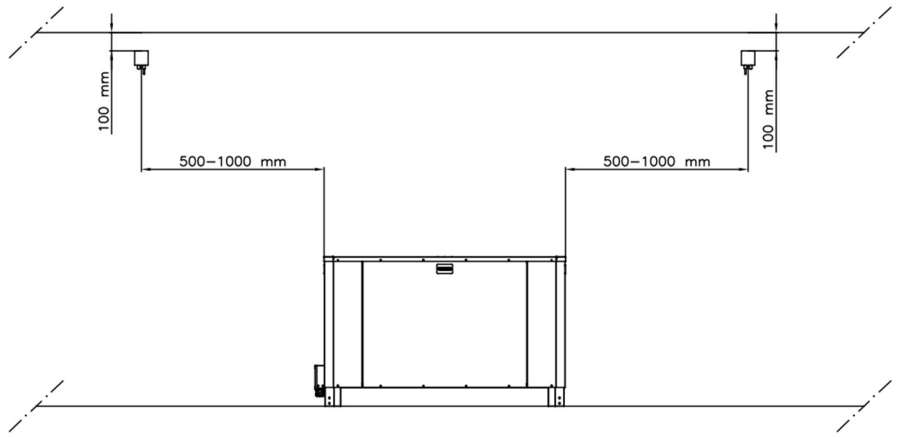

Figure 2: Installation Area When Sensors Are Mounted on the Ceiling