

Description of the controller

How it works

The controller CS-19 is steering the pump of central heating and hot water, and also the forced draught fan. It has the touchpad with the possibility to attach the room thermostat. It is designed for steering the central heating boiler for solid fuel, such as wood, coal and fine coal. The user has 5 versions of working modes of the controller depending on the type of fuel and the boiler. The first thing the user has to do before starting the exploitation is to set the temperature of the stove, which the controller is going to keep during the work of the boiler and to choose the working mode of the controller in the menu(F). You can see the current temperature of the hot water tank by pressing [-]. After 3 seconds the controller will automatically go back to show the temperature of the stove.

Function F1-wood and coal(continuous power of the blower)

Function F2 wood (power of the blower 20%+blow-offs)

Function F3 coal (power of the blower 50%+blow-offs)

Function F4 fine coal (power of the blower 100%+blow-offs)

Function F5 own settings

In functions from F1 toF4, the controller automatically adjusts the power of the blower, the temperature of activating the central heating pump, and the temperature of damping the stove, thanks to using the algorithm control smart. The power of the blower is lowered in the function F1, when the temperature of the boiler is going to reach the temperature of the stove set by the user. Damping the boiler is in the range between the 35°C to 50 °C. The hot water pump is activated in the range from 30°C to 40°C, depending on the set temperature of the stove, while the hot water pump works on the basis of the difference of temperatures. The set temperature of the boiler is automatically the temperature of the tank.

Function F5 lets regulate all the parameters of the controller work, that is the temperature of activating the central heating pump, the hot water pump, power of the blower, breaks and the length of the blow-offs, temperature of lighting the stove and the time of damping the stove, according to the individual needs of the user.

In each mode of the controller from F1 to F5 there is a possibility to switch on the priority of the hot water pump in the summer mode of the room thermostat.

When the thermostat is switched on in the menu(t on) the controller after reaching the temperature of the room thermostat will go into the sustain mode, and the blow-offs will work according to the values set in the service menu. When the hot water pump priority is on or in the summer mode, the controller ignores work of the room thermostat to the moment of reaching the temperature by the tank.

Controller maintenance

After switching on, the controller will automatically go into the lighting the stove mode. To enter the menu of the controller you need to touch the [F] key. The set temperature of the boiler will be flashing on the LCD, then you can set the temperature you want by pressing the keys[+] and [-]. After setting the temperature you want press again the [F] key. On the LCD there will be flashing F and the currently chosen number of function. Then you choose the function you want by pressing the keys[+] and [-]. After choosing the required function the controller will switch itself into the working mode. In case of function F5 you need to press [F] symbol in order to switch to individual settings of the user.

You will see as follows:

P- hot water pump priority

L- summer/winter mode

t- room thermostat

C- temperature of activating the central heating

U- temperature of hot water tank

D- power of the blower

1.-blow-off time

2. break in blowing-off

3. damping temperature

4. time of lighting

To enter the menu you need to touch the [F] symbol, while the values are set by the [+] and [-] keys. After setting the required values the controller will remember them and after a few seconds it will turn to working mode. The controller is equipped with the alarm signaling too high temperature of the boiler(90 °C). The Anti-stop function prevents the pump from the stagnation after the heating season by switching it on for 15 seconds every 14 days. The Antifreeze function switches on the central heating pump in case if the temperature of the liquid in the system goes below 5°C.

The lock of the blower and starting the blower

To block the blower you need to press the symbol /?. On the LCD there will be announcement for F (menu is unavailable at that time). To unlock the blower you need to press the symbol/? again.

To switch on the pump for the continuous work:

To switch on the central heating pump you need to press and hold for 3 sec. the [+] key. The pump will work till the user again presses the [+] key or until switching off the power by the main switch. In case of the hot water pump you do the same but press the [-] key.

Service options

In service options you can change the type and power of the blower during the lighting, and the break of the blow-off when the room thermostat is on. Entering the service options is possible by switching off the power and again switching it on by holding the [F] symbol, then on the LCD 888 will show.

d- type of blower

d1-WPA120 blower

d2-DP-01, DP-02 blower

d3-RV-14 blower

d4-DP-120 blower

F1- the maximum power of the blower during the lighting , only for the F1 function in the menu

F2- break in the blow-off for the thermostat function

After setting the type and power of the blower, after 5 seconds the controller will automatically switch to the options set in the service parameters.

Installation instructions

The installation should be done by the person having the proper electrical qualifications. The sensor should be placed at the exit of the boiler by the wire-tie and isolated from the external factors by the isolation tape(it cannot be immersed in any liquid). The power cord for the pump should be connected in the following way: blue-brown-230V, yellow-green(protective) should be connected to the ground

The controller has the thermal security which should be installed together with the central heating sensor. This is the additional security which in case of the failure of the controller, at 90 °C, cuts off the power supply to the blower.

Information concerning disposal of electrical and electronic appliances

The symbol shown above placed on the products or the enclosed documentation informs that the faulty electrical or electronic appliances cannot be thrown away together with the domestic waste. The correct way in case of disposal, reuse or recycling of actuators is to give the appliance to the specialized waste collecting centers, where it will be taken free of charge. In some countries you may give your product away to the local distributor while buying another appliance. The correct utilization of the appliance enables preventing the precious resources and avoiding the negative impact on health and environment, which may be endangered by the improper conduct with the waste. You can get the specific information concerning the nearest collection point at the local authorities. The incorrect utilization of waste is subject to penalty provided in the appropriate local provisions.

Guarantee

The producer ensures the buyer that the product will work faultlessly for 24 months since the date of sale. The guarantor promises to repair the appliance, if the failures occurred due to his fault. The appliance should be delivered to the place where it was bought, enclosing this guarantee with the confirmed date of purchase. All the expenses connected with it will be due to the user. The guarantee does not cover the failures caused as a result of lightning strikes or short circuits. The guarantee for the sold commodity does not exclude, restrict nor suspend the rights of the buyer resulting from the inconsistency of the commodity with the agreement.