



## SERVICE MANUAL WRITTING SAMPLE

### 1. General safety and explanation instructions for symbols

#### 1.1 Instructions for safe operation

Installation and commissioning

Observe the instructions to ensure impeccable function.

Installation and commissioning can only be performed qualified service engineers.

The danger of life from electricity

Only dispose of an electrical outlet with qualified personnel electrician. Observe the connection diagrams!

Before installing: Disconnect the supply voltage (230 V AC). Insurance against accidental startup.

Do not mount this unit in damp premises.

Never plug in the device 230 V network.

Warning: Freezing

If the heating installation is not in operation, it could be frozen during freezing:

Keep the heating system permanently on.

Turn on frost protection.

In case of interference: disconnect the fault without delay.

Inspection / maintenance

Please only use genuine spare parts.

#### 1.2 Explanation of symbols:

Signal words indicate the severity of the danger that occurs if the measures for reducing the damage are not respected.

Caution means less material damage may occur.

Warning means that light injuries or major material damage may occur.

Danger means serious injuries can occur. In particularly severe cases there is a life threat.

The notes contain important information in cases where there is no danger to people or device. Text on the display: The terms directly related to the display on the screen appear as the current text of the greasy letters.

### 2. Information about the appliance

This document helps in diagnosing and removing troubles, such as code

Locking and blocking safety shutdown,

Service messages (maintenance reports),

Installation errors (EMS components).

The data is valid for all offices (unless otherwise stated). This document is intended for repairers who, based on their expertise, have experience and know how to handle heating installations, as well as gas installations.





## 2.1 Proper use

The appliance must only be used in accordance with the intended use and in combination with the above-mentioned control systems. Some other applications are not allowed.

## 2.2 Norms, regulations and guidelines

When installing and operating the drive, the applicable regulations and standards must be observed!

## 2.3 Waste Disposal

Decontaminate packaging in an environmentally friendly manner.

Installing components that must be replaced should be handed over to an authorized service center.

## 3. Diagnosis of interference

In the following chapter, you will be able to describe errors and malfunctions on the basis of the table, using the error codes of the combustion automaton SAF combustion mode with the burners of other manufacturers, as well as through the service and code errors of the Logamatic EMS (Energy Management System) control system according to tables.

Read service code and error code

In the event of an error, the display code directly indicates the display on the control unit. The display flashes when locking the security shut-off.

Press the "Status Display" button to read the error code.

Press the "Status Display" button several times to display additional status information until the service code is displayed again.

If necessary, note the service code and error code, and look for possible error correction steps in Tables 1 to 5 on the following pages.

If maintenance / service is required, a service message is displayed.

Repeatedly press the "Status display" button to display additional status information until the service message appears again.

Required service intervals are shown in Tables 6 to 10.

Return interference in the initial state (reset)

If there is a lock error (the display flashes), after pressing the "Reset" key, make sure the error is repeated.

Press the "Reset" button on the erase erase controller.

The display shows "rE" while Reset is running.

## 3.1 Error reporting

Using the Error detection menu, you can load the last error message displayed, for example, to investigate the error.

We distinguish between errors in the following categories:





- o Current errors are all open errors that are currently in the installation. These include errors that cause locking, blocking or installation errors.
- o Errors that cause locking: After removing the fault, it is necessary to unblock the heating installation manually. Press the RESET button on the boiler.
- o Errors that cause blocking: In case of faults that cause locking, the heating installation will work independently after removing the fault.
- o Errors on the heating installation are protocolled in RC 35, excluding boiler or burner errors, which are either faults that cause "locking" or "blocking" of the installation. The heating installation works further during the fault state - if it is possible - and Reset is not needed.