

Strategy module

FM458/CMC 930



BOSCH

Operating instructions

Table of contents

1	Safety	3
1.1	About these instructions	3
1.2	Determined use	3
1.3	Standards and directives	3
1.4	Explanation of the symbols used	4
1.5	Observe this information.	5
1.6	Disposal	6
2	Product description	7
3	Operating function module FM458/CMC 930	9
4	Boiler flue gas test	10
5	Troubleshooting	11

1 Safety

1.1 About these instructions

This chapter contains general safety instructions which must be observed when operating the function module FM458/CMC 930.

Also closely observe the further safety instructions that you will find in other chapters of these operating instructions. Carefully read the safety instructions before commencing the work described below.

If safety instructions are ignored, severe or even fatal injuries may result, as well as material losses and environmental damage.

1.2 Determined use

You can integrate the function module FM458/CMC 930 into the control units CFB 910 and CFB 930.

For faultless operation, you will need at least software version 8.xx for the control unit and Programmer programming unit.

1.3 Standards and directives





The design and operation of this product conforms to the European Directives and the supplementary national requirements. Its conformity is demonstrated by the CE designation.


You may request the declaration of conformity for the product. You will find the contact address on the back cover of these instructions.

1.4 Explanation of the symbols used

Two levels of danger are identified and signalled by the following terms:

 WARNING!	RISK OF FATAL INJURY Identifies possible risks associated with a product that might lead to serious injury or even death if appropriate care is not taken.
--	--

 CAUTION!	RISK OF INJURY/SYSTEM DAMAGE Identifies potentially dangerous situations, which might lead to medium or slight injuries or to material damage
--	---

	USER INFORMATION User tips for the optimum utilisation and adjustment of the appliance plus other useful information.
---	---

1.5 Observe this information

- Only operate the modules as intended and when they are in perfect working order.
- Let your heating contractor instruct you thoroughly in the operation of this system.
- Read these operating instructions carefully.
- Only enter or change the operating values detailed in these instructions. Any other entries can change the heating system control programs and may result in faulty system functions.
- Maintenance and repairs as well as fault diagnosis should only be carried out by authorised and qualified personnel.



WARNING!

RISK OF FATAL INJURY

from electric shock!

- Never open the control unit.
- In an emergency switch off the control unit (e.g. with the heating system emergency stop switch) or isolate the heating system from the mains supply by removing the main fuse.
- Ask your local heating contractor to remedy any faults in the heating system immediately.



CAUTION!

RISK OF INJURY/SYSTEM DAMAGE

from operator error.

Operator errors can result in injury and damage to property.

- Ensure that children never operate the appliance unsupervised or play with it.
- Ensure that only personnel able to operate the appliance correctly have access to it.

1.6 Disposal

- Electronic components must not be disposed of with general domestic waste.
Dispose of old modules correctly through an authorised disposal site.

2 Product description

The function module FM458/CMC 930 is designed exclusively for use in the modular control system.

You can integrate the function module FM458/CMC 930 once or twice into a control unit CFB 910 or CFB 930 of the control system.

Up to 4 EMS or CAN boilers can be controlled with a function module FM458/CMC 930. As a result, up to 8 boilers can be regulated.

**NOTE:**

The CMC 930 is identified as FM458 in the Programmer programming unit.

Front panel

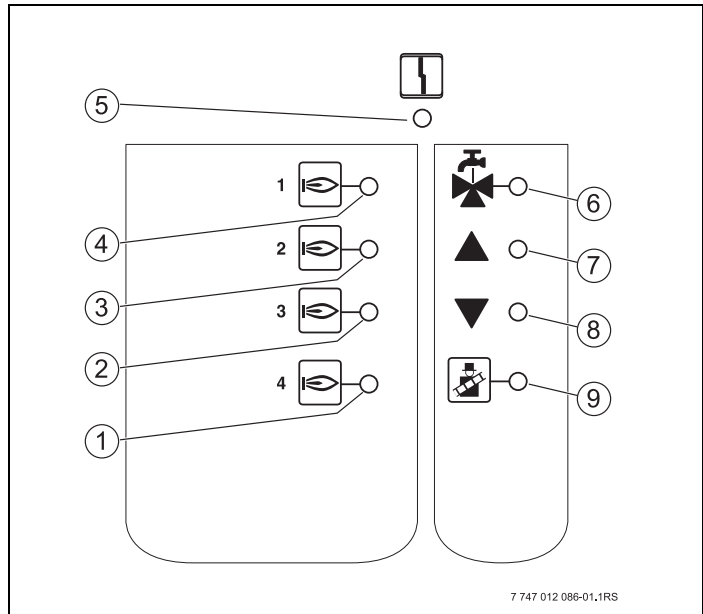


Fig. 1 Front panel – FM458/CMC 930 function module

- 1 LED boiler 4 enabled
- 2 LED boiler 3 enabled
- 3 LED boiler 2 enabled
- 4 LED boiler 1 enabled
- 5 LED "Module fault" (red) – general module fault*
- 6 LED DHW active via EMS boiler 1
- 7 LED flow too cold, therefore higher output
- 8 LED flow too hot, therefore lower output
- 9 LED flue gas test active

* e.g. on-site fault, external fault, wiring fault, internal module fault, manual mode.
The error messages appear as plain text in the Programmer programming unit.

3 Operating function module FM458/CMC 930



CAUTION!

RISK OF INJURY/SYSTEM DAMAGE

from operator error.

Operator errors can result in injury and damage to property.

The function module FM458/CMC 930 contains no parameters which are adjustable for the end customer.

All the settings for this module are only accessible to authorised personnel and are described in the installation and maintenance instructions of the FM458/CMC 930 function module.

- Ensure that this device is only operated by authorised personnel.

4 Boiler flue gas test



USER INFORMATION

- Observe the relevant national requirements regarding limiting the flue gas losses of your heating system.
- Have a flue gas test carried out annually.

The flue gas test is started at the boiler (see technical boiler documentation).



WARNING!

RISK OF SCALDING

from hot water.

During the flue gas test, the DHW may be heated above 60 °C. This creates a risk of scalding at the draw-off points.

- During or after a flue gas test, only turn on mixed hot water. Note that when mono-lever mixer taps are in their usual position, water coming out of the tap may be too hot.
- Never draw off only hot water when using twin-lever mixer taps.

5 Troubleshooting



WARNING!

RISK OF FATAL INJURY

from electric shock!

- Never open the control unit.
- In an emergency, switch off the control unit (e.g. with the heating system emergency stop switch) or isolate the heating system from the mains supply by removing the main fuse.
- Arrange for your heating contractor to rectify any heating system faults immediately.

Faults in your system are shown on the display of the Programmer programming unit.

Report the fault by telephone to your heating contractor.



USER INFORMATION

In the "fault" column, there is a list of all the faults which can occur between the FM458/CMC 930 function module and the connected heat appliances.

The terms in the "fault" column show the messages as they appear on the Programmer programming unit display.

Programmer message	Effect	Remedy
Boiler x Status y/z Burner	– It goes cold.	– On BC15 press the "Reset" button. – Notify your heating contractor.
Boiler x EMS	– The combustion is not at an optimum level (high emissions).	– Notify your heating contractor.
Boiler x Maintenance Hyy	– No effect – Service message (e.g. maintenance interval expired), no system fault	– Notify your heating contractor.
Boiler x Manual mode	– It may get cold.	– This is not a fault. If you no longer require manual operation, set both rotary knobs on the BC15 basic controller to "AUT".
Boiler x No connection	– It goes cold.	– Notify your heating contractor.
Boiler x Boiler allocat.	– It goes cold.	– Notify your heating contractor.
DHW (Domestic hot water) EMS	– No domestic hot water.	– Notify your heating contractor.
Strategy Flow sensor	– Automatic emergency mode	– Notify your heating contractor.
Strategy Return sensor	– Automatic emergency mode – Operation without condensate protection	– Notify your heating contractor.

Tab. 1 Error handling

United Kingdom

Bosch Thermotechnology
Cotswold Way, Warndon, Worcester WR4 9SW
All Enquiries: 0844 892 3004

www.boschthermotechnology.co.uk

Éire

Bosch Thermotechnik GmbH
Sophienstrasse 30-32
D-35576 Wetzlar
www.buderus.de
info@buderus.de

C & F Quadrant Ltd.
Unit L40 Cherry Orchard Industrial Estate
Cherry Orchard, Dublin 10
Tel.: 01.6305700
Fax.: 01.6305706 / 01.6305715
www.cfquadrant.ie
E-mail: sales@cfquadrant.ie

Australia

Robert Bosch (Australia) Pty Ltd
1555 Centre Rd
Clayton, VIC 3168
Phone 1300 30 70 37
Fax 1300 30 70 38
www.bosch.com.au/hotwater

New Zealand

Phone 0800 4 Bosch or 08 543 352
www.bosch.co.nz