

# Logamatic 4000 Series Modular Control Systems

**Buderus**

Bosch Group



## Integrated System Controllers for Greater Efficiency and Flexibility

- Modular Design with Functional Control Modules
- Factory Pre-Programmed for Outdoor Reset
- Manual/Automatic Operation of all Outputs
- Operation of Multiple Boilers, System & Zone Pumps and 2, 3 & 4-Way Mixing Valves
- Complete Self Diagnostics & Programming
- Remote 0-10 Volt Control Input for Burner, Pump and Set Point Adjustment

**Comfortable. Efficient. Intelligent Heating.**

# Logamatic 4000 Series Modular Control Systems

**Invest in the future: 4000 Series controls, the function of a BMS system at a fraction of the cost.**

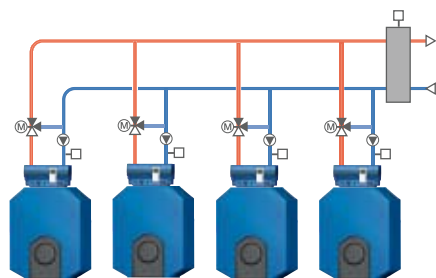
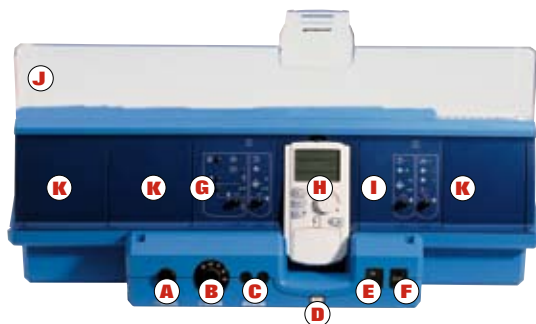
The Buderus 4000 series of controllers provides a wide range of control options for single and multi-boiler systems. The 4000 series can control virtually any Buderus heating system, whether an 8 boiler cascade or up to 3 commercial forced draft boilers and burners.

4000 series control units	4321	4323
Boilers and forced draft burners	•	—
Serial/Parallel Operation	•	•
Condensing boilers with EMS control system	•	•
Gas/oil burner, one/two step /modulating	•	—
Available module plug-in points	4	4
Heating circuits with mixers (max. possible)	8	8
Domestic hot water heating	•	•
Cascade systems	•	•*
0-10 Volt Input for Burner, Pump and Set Point Adjustment	•	•

\*Only with modulating burners with EMS boilers

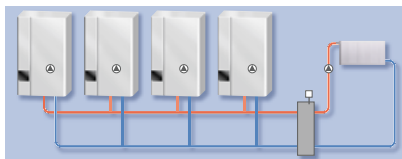
The Logamatic 4000 allows for complete system customizing with a variety of specialized modules. The MEC2, which is a user interface, features self diagnostics and system programming.

- A** Manual reset high limit
- B** Adjustable Aquastat
- C** Fuses
- D** Connection for external service devices
- E** Manual override
- F** On/Off switch
- G** ZM434 Module
- H** MEC2 Control Unit
- I** Optional module
- J** Cover
- K** Available module slots



A single 4323 Logamatic control is used for Multiple GB142 & GB312 EMS Boilers

The Logamatic 4321 control (master) combined with a 4312 control (secondary) allows hybrid systems with G315/515/615 Cast Iron and SB615/735 Condensing Boilers. The FM458 module controls Load/Time/Remote Input Staging for up to 8 On/Off, 4 LHL or full-mod burners.



## Module Functions



### FM441

Heating Zone, DHW Tank Zone and DHW Recirculation Pumps



### FM442

2 Mixed Heating Zones with independent programmability



### FM443

Solar Panel System Control of 2 independent temperature Storage Tanks



### FM445

Heat Exchanger Control with outputs for 3 pumps and mixing valve



### FM458

Controls 4 boilers/power burners, lead-lag or rotation, load limit, serial or parallel operation, 0-10V input and output for EMS and power burner



### FM448

Interface Module for remote setpoint, 0-10V/0-20mA setpoint output



### FM456

2 boiler staging/rotation, reset, system pump control, 0-10V setpoint/load input



### FM457

4 boiler staging/rotation, reset, system pump control, 0-10V setpoint/load input

# Buderus

Bosch Group

Bosch Thermotechnology Corp.  
50 Wentworth Avenue • Londonderry, NH 03053  
Tel: (603) 552-1100 • Fax: (603) 584-1681 • [www.buderus.net](http://www.buderus.net)

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