DKMATIC

Valve-controlling central heating boiler controller

cat. number 401011

2 NUMBER OF PUMP CONTROL OUTPUTS

CH PUMP | HTW PUMP | LOOP 2 PUMP | 3-WAY VALVE | WEATHER COMPENSATION | WEEKLY SCHEDULE | HTW PRIORITY | RS EXTENSIONS | COMFORT SYSTEM | SUMMER MODE | ROOM THERMOSTAT | FROST PROTECTION
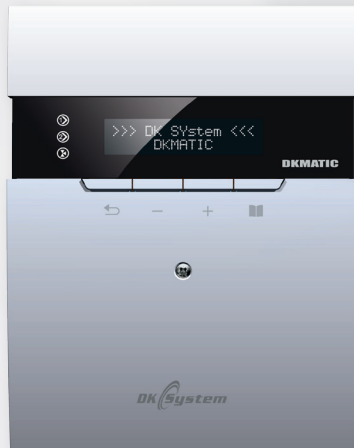
CONTROLLER OVERVIEW

The DKMATIC controller can add new features to DIG, PWM, or 0–10 V protocol boilers. It controls the boiler and another heating loop with an actuated three-way valve.

The temperature in both loops (fed directly from the boiler and through the valve) can be controlled according to the external temperature and a selected heating curve. Two independent heating curves may be selected for both loops.

CONTROLLER'S FEATURES:

- control of a mixing valve loop according to the external temperature and a selected heating curve
- optional extension using three additional DKMZ 1 modules to control a loop with a pump and a three- or four-way valve according to the external temperature and a selected heating curve
- control of the central heating circulation pump
- control of a third pump that could be a hot tap water pump, circulation pump, or loop 1 pump
- enabling and disabling hot tap water priority
- control of hot tap water cylinder pump according to the required temperature
- boiler operation according to a selected weekly schedule
- COMFORT SYSTEM function that protects the pump from scaling
- freeze protection and boiler overheating protection functions
- temperature sensor failure signals
- up to two DK LOGIC room thermostats
- boiler operation control with an internal DIG protocol

DK System

INTELIGENTNE **ROZWIĄZANIA**

TECHNICAL CHARACTERISTICS	DKMATIC
Rated supply voltage	230 V, 50 Hz
Relative air humidity	< 95 %
Enclosure protection level	IP 20
Output load	pump: 100 W / 230 V HTW pump 100 W / 230 V valve: 50 W / 230 V
Dimensions	175 x 136 x 46 mm
Ambient temperature	od 0 °C to + 40 °C
Electrical safety device	1 x 2,5 A

HEATING SYSTEM CONNECTION DIAGRAM
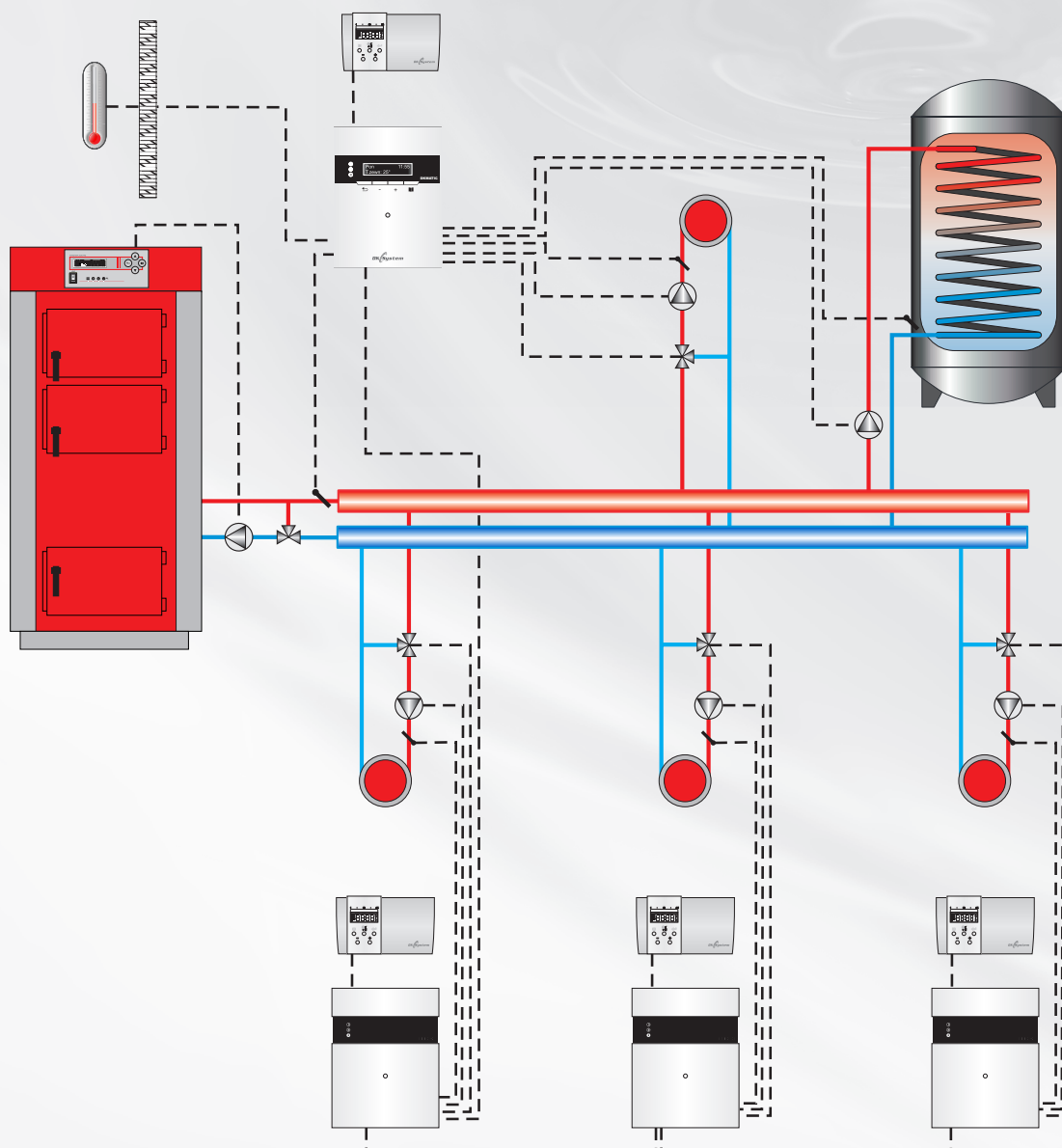
Example of a heating system diagram using the DKMATIC controller with three extension modules DKMZ1: Loop 3, Loop 4, and Loop 5.   Without cut-off and safety devices. It is not a replacement for a professional design at the installation site.