“Regtronic RH” Heating circuit controller

For the weather guided control of a variable temperature heating circuit and two constant temperature heating circuits or additional functions and re-loading of the storage cylinder. Alternatively, up to 5 constant temperature heating circuits or additional functions as well as re-loading of the storage cylinder are possible. Intuitively adjustable by preloaded system diagrams and functions.
The function range can be increased to up to 38 sensor inputs and 30 relay outputs by connecting a maximum of 5 extension modules “Regtronic EM”. The spatial separation of the switching tasks for the individual building sections is simplified by the S-bus interface connection (with a 2-core cable).
Each additional extension module “Regtronic EM” allows for the central control of an additional variable temperature heating circuit and two additional functions via the controller “Regtronic RH”.

Application:

- Extension or replacement of existing boiler controls
- Modernisation of existing installations
- Realisation of individual heating system configurations
- Controller and extension modules for multiple switching tasks (see “additional functions”)

Function:

Depending on the outside temperature and the adjustable heating curves, the Oventrop heating circuit controller “Regtronic RH” serves the flow temperature control of the heating circuits. Actuators and mixing valves with rotary movement or stroke lift can be used. Room temperature sensors, room thermostats and remote controls are detected.
Control of the storage cylinder loading pump for domestic water temperature control.
The re-loading function of the storage cylinder individually reacts to the weather guided heating circuits and the hot water preparation. Guided menu for quick start, settings secured by a code.
User friendly setting of the nominal temperatures and switching times. The functions are optimized for use with Oventrop components.

Controller functions:

Heating:

- Weather guided heating circuit control
- Re-loading of the storage cylinder
- Hot water preparation with priority function
- Circulation (different modes according to a timed programme)
- Thermal disinfection with error message

Additional functions:

- Fault relay, parallel relay
- Solid fuel boiler, return temperature increase, ΔT control
- Mixing valve control, thermostat function
- Timer
- Heat exchange, zone loading

A total of 5 relays are available. One variable temperature heating circuit is assigned to 3 relays and each of the above functions to 1 relay.

Measurement of heat consumption:
configuration of up to 5 x measurement function:
Volume flow setting by fixed value, impulse or VDF sensor (“Grundfos Direct Sensors”)
Temperature sensors for difference formation are freely selectable.

“Regtronic RH”

Connection:

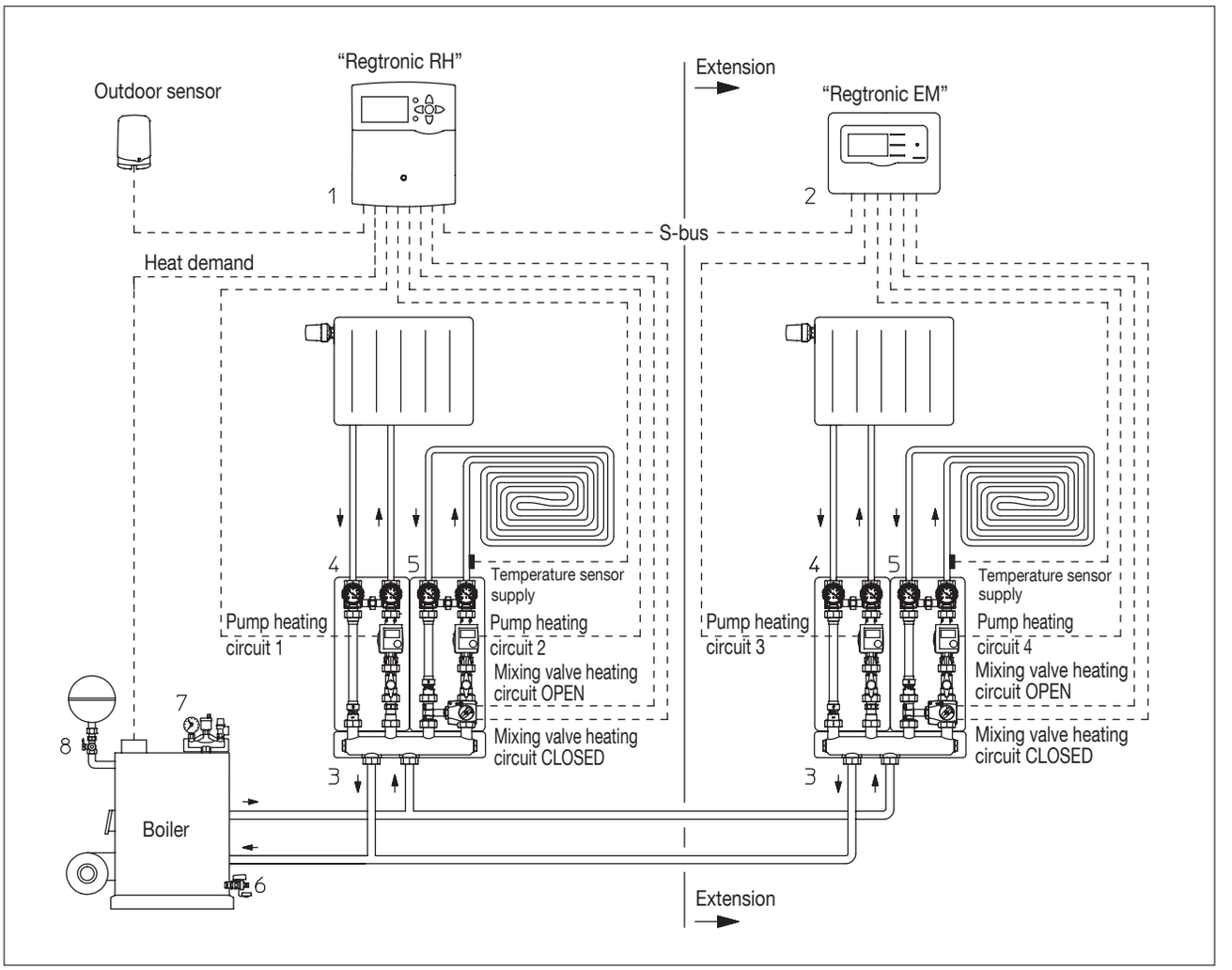
- Mains connection: 100-240 V~ / 50-60 Hz
- Type of connection: Y
- Interfaces: S-bus, SD card slot
- Inputs:
  8 inputs for different signal types
  2 inputs for digital “Grundfos Direct Sensors”
- Outputs:
  4 solid-state relays, switching capacity 1A
  (e.g. for pump speed control or activation/deactivation of pumps and valves)
  1 volt free make contact relay, switching capacity 2A
  (e.g. heat demand to the boiler for re-loading of the storage cylinder)
  2 x PWM, convertible to 0 – 10 V or speed control of high-efficiency pumps with signal input

Extent of supply:

- Electronic controller “Regtronic RH”
- 1 outside temperature sensor PT 1000
- 1 sensor attached to the pipe PT 1000
- 2 temperature sensors PT 1000
- Heat conducting paste
- Fixing material
- Installation and operating instructions

Item no.: 1152093

Accessories:	**Item no.:**
– “Regtronic EM” Extension module	1152098
– Room temperature sensor PT 1000	1152095
– Room thermostat – surface mounting	1152051
– Remote control with room temperature sensor	1152096
– Temperature sensor PT 1000 (L=200 cm)	1369093
– Temperature sensor attached to the pipe PT 1000 (L = 150 cm)	1369095
– Outside temperature sensor PT1000	1152099



System illustration

Weather guided control of 2 variable and 2 constant temperature heating circuits with heat demand (for instance via a conventional boiler or heat pump) consisting of the heating circuit controller “Regtronic RH” with outdoor sensor and the extension module “Regtronic EM”.

1 “Regtronic RH-B” Heating circuit controller with outdoor sensor
2 “Regtronic EM” Extension module
3 Distributor for “Regumat”
4 “Regumat S”
5 “Regumat M3”
6 “Optiflex” Ball valve
7 “MSM-Block” Boiler safety device
8 “Expa-Con” Valve with lead sealable cap

Subject to technical modifications without notice.

Product range 6
ti 320-EN/10/MW
Edition 2017