

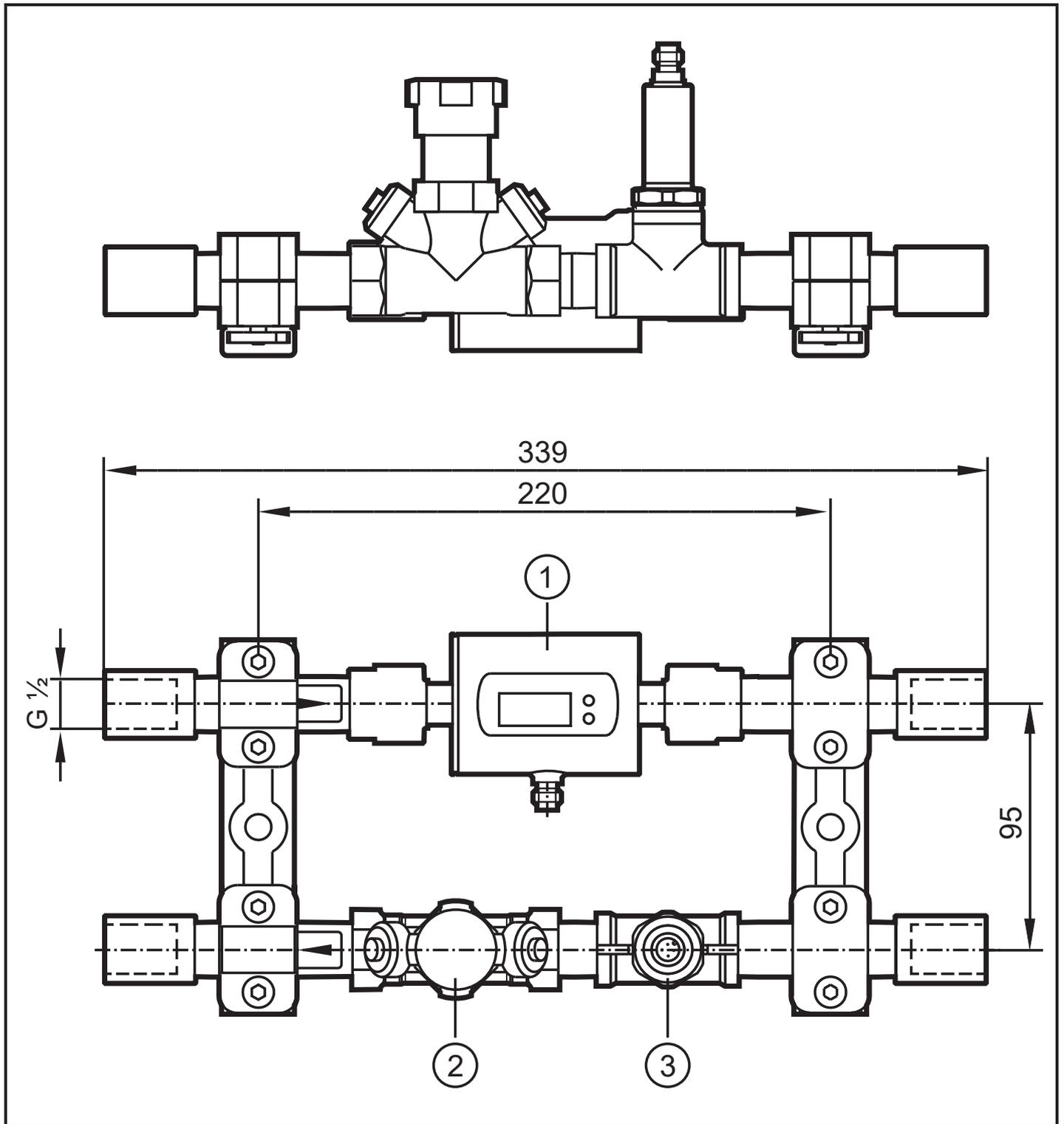
Short instructions
Cooling water control panel

ZZ0600

UK

80280620 / 00 12 / 2018

1 System overview



1	Flow sensor	Monitors and indicates the cooling water flow rate. The setting of two switch points enables detection of: - excess flow (leakage / burst pipes / lost tips) - low flow (clogged /damaged pipes).
2	Regulating valve	Regulation of the flow rate.

3	Temperature sensor	Monitoring of the return temperature.
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- ▶ Observe the instructions of the sensors → www.ifm.com
→ SM6000 and TA2405.

2 Functions and features

Pressure Equipment Directive (PED)

The units comply with the Pressure Equipment Directive and are designed and manufactured for group 2 fluids in accordance with the sound engineering practice.

Use of group 1 fluids on request.

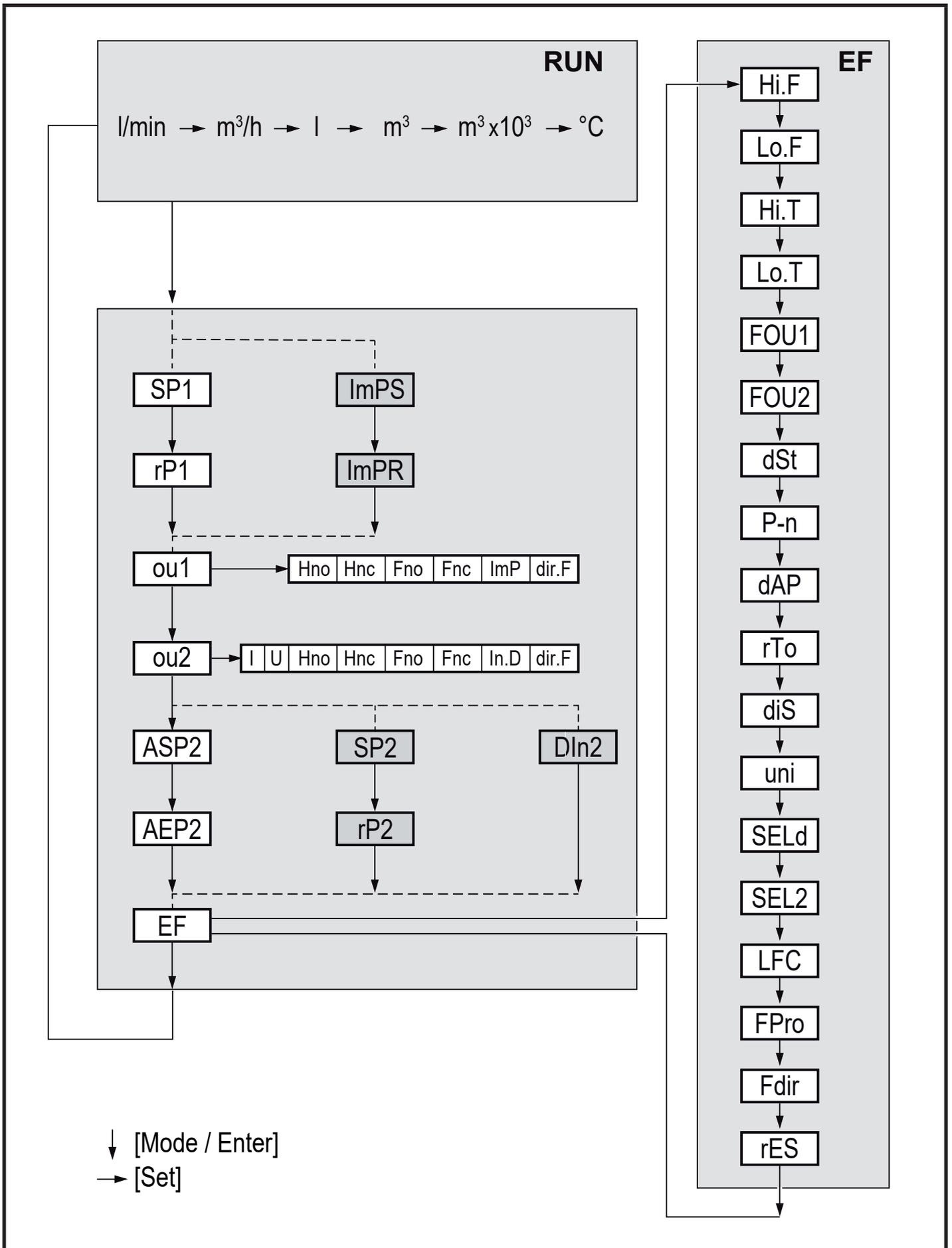
3 Setting of the flow sensor

The flow sensor monitors the flow rate in the supply pipe by means of a window function. This is achieved by setting the output function of the two outputs: OU1 and OU2 = Fno, window / normally open. With this setting an acceptable range is monitored.

The flow rate depends on the water supply. The setting of the switch-on points (SP1, SP2) and the switch-off points (rP1, rP2) depends on the installation.

Optimum monitoring of the start up characteristics as well as process-related flow fluctuations during operation is possible via additional monitoring times in the controller.

3.1 Parameter setting of the flow sensor



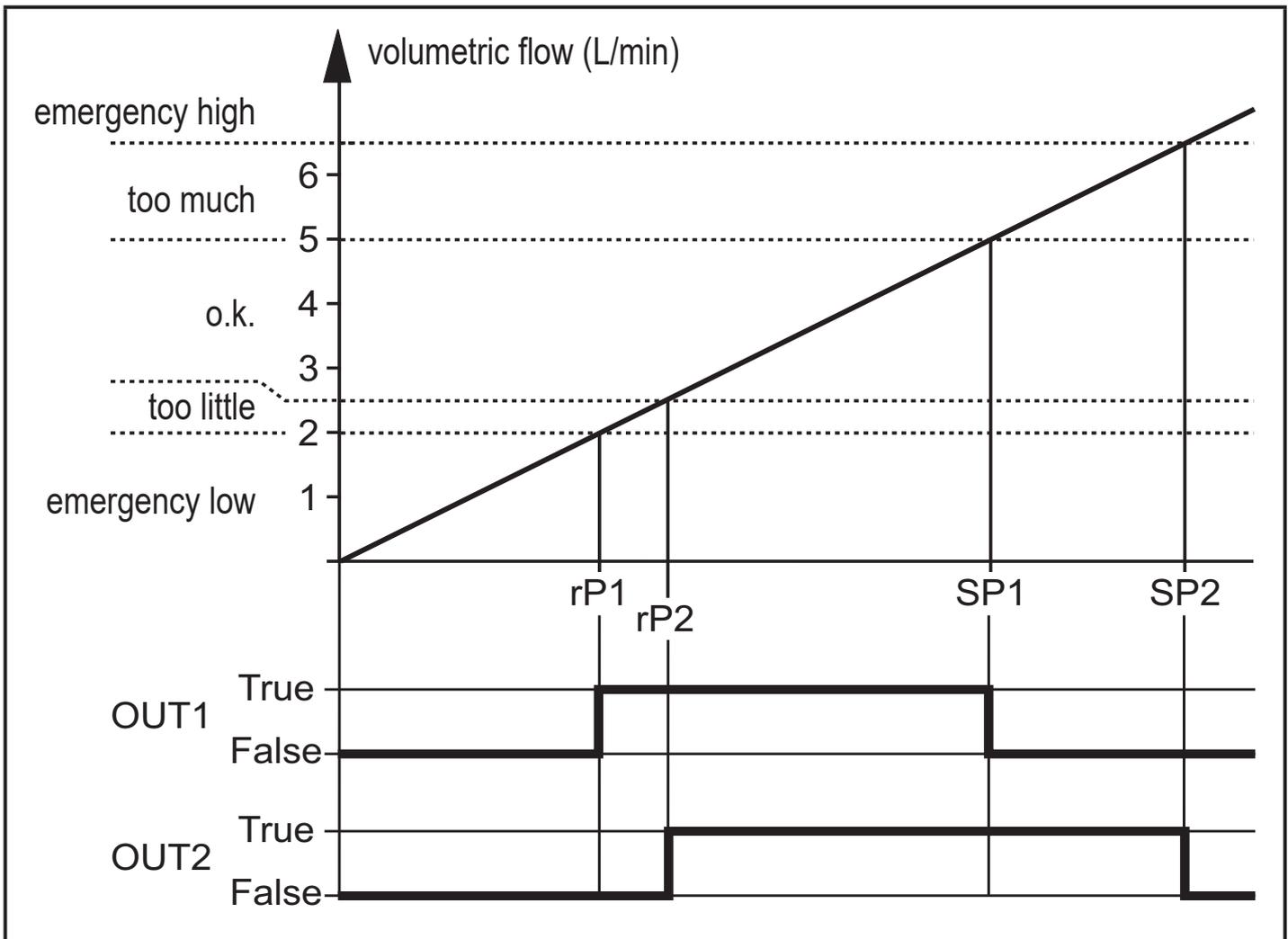
1	Parameter selection	▶ Press [Mode/Enter] until the requested parameter is displayed.
2	Setting of the parameter value	▶ Press [Set] and keep it pressed. > Current setting value of the parameter flashes for 5 s. > After 5 s: Setting value is changed: incrementally by pressing the button once or continuously by keeping the button pressed.
3	Acknowledgement of the parameter value	▶ Press [Mode/Enter] briefly. > The parameter is displayed again. The new setting value is stored.

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Technical data and instructions at www.ifm.com → Data sheet SM6000

3.2 Operating principle of flow monitoring (Example)



4 Function

The heat quantity can be determined on the basis of the flow temperature, return temperature and volumetric flow.