



## Laboratory monitoring system **SAFETYLAB 4000**

For permanent monitoring of

- **Temperature**
- **Cooling water**
- **Stirrer rotation speed**
- **Operation time**

The laboratory monitoring system SAFETYLAB 4000 is manufactured for monitoring laboratory installations, also for unmanned operations at night. Therefore we set a high value on cleanness and simple handling. Not required functions can be shut down. Malfunctions effect following:

In temperature overstepping

overstepping of  
 Stirrer rotational speed

overstepping of  
 cooling water flow

- 1) heating power shut down permanently
- 2) lowering the heating bath with lifting ramp
- 3) water stop after 20 minutes
- 4) Stirrer stop

- ditto  
 ditto  
 Water stop  
 Stirrer stop

- ditto  
 ditto  
 Water stop  
 Stirrer stop

If one of these malfunctions occurs, the matched diode lights up and the alarm starts. Therefore the reason for alarm is always detectable. Because of the high breaking capacity of 15A/230V sized thermostats and Cryostats are connectable. The starting and finishing time of experiments are entered by a clock timer just as the time for night operation of the cooling water circuit.

### Technical datas:

Dimensions: Aluminium housing B155xH215xT155 mm, Weight 2 kg  
 Breaking capacity: 16A/230V, for consumer load, 1A/230V for stirrer and magnetic valve  
 Temperature: -150,0+450,0°C Pt 100 (also thermocouples possible) LED indication 10 mm  
 Water flow: min. 10 l/h, max. 250 l/h, LED indication 10 mm  
 Stirrer: min. 10 rpm, max. 3000 rpm, LED indication 10 mm

### Serially equipment:

Pt 100 100x6 mm VA, cooling water sensor, water Stopp valve, Rpm-sensor, outputs in the device: sockets for consumer loads and Stirrer, connectors for measurement sensors, switching output for water stop magnetic valve 230V, socket for lifting