

## Control panel for fume hood, URANOS FUME HOOD CONTROLLER

SYSTEM **URANOS****NETAVENT****Operational monitoring and control**

The control panel is a part of the electric monitoring system and provides the user with operational status. The **Uranos Fume Hood Controller** also allows the user to control and monitor the operation of the fume hood. Usage is easy and intuitive as the control panel keeps the user continuously informed of the operating status via both visual and audible signals.

**Usage of the Uranos Fume Hood Controller**

The control panel indicates the current air velocity in status of the fume hood:

- **CLOSE** (flashing red indicator) + **sound alarm** (beeps continuously while activated).  
– Extraction is insufficient. **REQUIRED ACTION:** Close the hatch!
- **OK** (illuminated green indicator).  
– Air velocity is correct and complies with set point requirements.
- **ENERGY** (illuminated blue indicator)  
– The fume hood operates in energy saving mode<sup>\*)</sup>.
- **ENERGY** (flashing blue indicator)  
– Air velocity is too high, contact operations.
- **ENERGY** (flashing blue indicator) + **sound alarm** (3 short beeps followed by a 1 sec. pause, while activated).  
– Hatch alarm, activates after approx. 10 minutes if the user forgets to close the hatch.  
**REQUIRED ACTION:** Close the hatch!
- **ENERGY** (flashing blue indicator) + **CLOSE** (flashing red indicator) + **sound alarm** (3 short beeps, every 5 min.).  
– The hatch is positioned above the max. level marking. **REQUIRED ACTION:** Lower the hatch below the max-marking. **NOTE:** The sound alarm will stay active as long as the hatch remains above max level.

The control panel buttons offer the user various override possibilities.

Each function is activated by pressing the button and deactivated by pressing the button again:

- **EMERGENCY** (symbol: warning triangle) **small red diode flashes** + **CLOSE indicator flashes**.  
+ **sound alarm** (beeps continuously while activated).  
– Overruns all other functions. **USED WHEN:** Accidents occur while using the fume hood.
- **NO FLOW** (symbol: crossed out propeller) + **small red diode is emitted continuously while activated**.  
**USED WHEN:** Air extraction isn't required. Can also be used to prevent drafts, or when preparing larger set-ups adjacent to the fume hood.
- **NO FLOW** (symbol: crossed out propeller) + **small red diode flashes continuously while activated**.  
– The fume hood has been deactivated via the BMS (building management system).  
**REQUIRED ACTION:** Contact operations.
- **RESET ALARM** (symbol: crossed out speaker).  
– By pressing the button, an activated sound alarm is suspended for approx. 10 minutes<sup>\*)</sup>.
- **LIGHT** (symbol: light-bulb)  
– Pressing the button turns the fume hoods lighting on and off<sup>\*)</sup>.

<sup>\*)</sup>**NOTE:** After approx. 10 minutes of inactivity, the light turns off and the fume hood automatically switches into energy saving mode, **ENERGY** (illuminated blue button).

**Avoiding draft problems**

To uphold the air balance in a room, the supplied with air volume must correspond to the total air extraction, including fume hoods, exhaust ventilation and chemical cabinets. If the balance isn't maintained, a large imbalance will occur, creating both over and under pressure, which will be clearly noticed when opening or closing doors. To avoid emissions from the fume hoods, large volumes of air are extracted, and for the same reasons, large quantities of air should be supplied into the premises. By keeping the hatches closed as often as possible, both extract and supply air volumes are kept down, minimizing the total air consumption. This also helps avoiding draft problems.

**Environmental consciousness**

For energy saving reasons, fume hood hatches should be kept closed as far as possible. Supplying indoor environments with warm room temperatured air, by heating cold outdoor air, is one of the most energy demanding procedures in housing and has negative effects on both environment and overall operational costs.



Control panel of the Uranos Fume Hood Controller.

**CAUTION!**

Indications of the control panel are only valid during normal operating conditions, and within the designated working range of the system. Should the hatch be set above its max-level marking, the technical properties of the air will change to an extent, that prevents the unit from rendering actual operating facts. The hatch should only be raised above the max. level marking in preparation and set-up of operational tests, and never during an ongoing test.