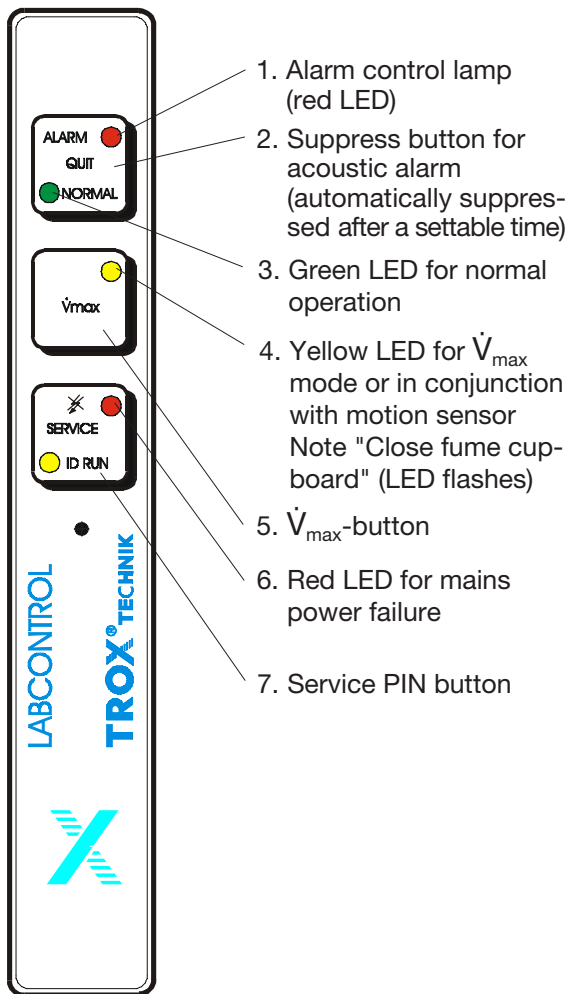


Operator terminal TCU-LON II Operating Manual

TCU-LON II Operator terminal



General

The Trox TCU-LON II operator terminal indicates whether the safety of the fume hood is guaranteed. The volume flow and/or the face velocity is monitored. This function monitoring is required under DIN 12924, Part 1 and or EN 14175 is for the safety of the fume hood user.

The Trox LABCONTROL operator terminal has four control lamps (LEDs) that display the actual operation mode of the fume hood. There are two buttons for acoustic alarm suppression and for overriding V_{max} switching. If the specified conditions are not fulfilled to, alarm control lamp 1 lights up and an acoustic alarm sounds. Any power failure is indicated by the red, capacitor-buffered LED.

Description, Operation

1. Alarm control lamp, (red LED)

If this control lamp is permanently lit, the actual volume flow and/or the face velocity is no longer in the safe range (acoustic alarm, standard duration 10 seconds, can be switched off with button 2 (Quit)). The red control lamp does not extinguish until the reason for the alarm has been eliminated. Reasons for the alarm can be:

- Fully open sash window (with pure face velocity monitoring)
- Failure of the fan or pressure drop in the ductwork

Note:

If the alarm has not been eliminated after the sash window has been closed, please inform the service staff! A permanently flashing alarm LED indicates a hardware error.

2. Alarm suppress button

The acoustic alarm can be switched off with this button.

3. Function control lamp, green

Permanently lit LED: controller in normal mode
Flashing LED: special mode (e.g. night operation, complete shut-off, additional the red LED is permanently lit in that case).

4. V_{max} control lamp, (yellow LED)

The V_{max} control lamp lights up when the controller is working in V_{max} mode. If the volume flow required by V_{max} mode is not sufficient there is a visual and an acoustic alarm.

Flashing LED in conjunction with movement sensors means: "Please close fume hood"

5. V_{max} button

This button can be used to manually increase the volume flow to the maximum V_{max} value at any time (keep the button pressed down until yellow control lamp 4 lights up). Press the button again to return to normal operation mode. If a time limit has been set, the yellow LED lights up after the set time and the normal mode is resumed. If the V_{max} button has been deactivated by the software, the V_{max} is not raised, the LED does not light up.

6. Mains control lamp, (red LED)

This control lamp flashes if the power supply fails (approx. 12 hours maintenance-free capacitor buffering). In this case, there is no other alarm message.

7. LON-ID service Pin

This button is used to generate the TCU-LON II Neuron ID in the LON network.