

HLU smartControl HLU easyControl



Predictive Maintenance
for maximum
process reliability



HLU smartControl
HLU easyControl -
simple monitoring
and control



Maintenance as needed by sensor monitoring

The HLU smartControl and HLU easyControl equip your fans with state-of-the-art measurement technology. Thanks to the transparent display of current measured values and the recording and display of all measured value over 5 years, you can identify critical conditions in the system and avoid failures.

With the HLU smartControl and easyControl you have a pre-parametrised interface that is perfectly tailored to HLU fans. This greatly facilitates integration into building management systems. All relevant information can be accessed directly on the fan with the intuitively operable Touch Display.



Benefits of using HLU smartControl and easyControl

- ✓ Analysis of operating states
- ✓ Visualisation by means of trend lines
- ✓ Prompt identification of necessary maintenance work
- ✓ Reduction in downtime
- ✓ Reduction in repair and maintenance costs
- ✓ Reporting and alerting
- ✓ Avoidance of consequential damage by timely action
- ✓ Central measuring point provides all of the data at a glance
- ✓ Plug and Play (preconfigured are ready for use straight away)
- ✓ Intuitive operation via a touch display
- ✓ Possibility to connect to building management systems (BMS)
- ✓ PID control keeps the volumetric flow to a default setpoint
- ✓ Password-secured access in two access profiles possible (Standard User, Customer Admin)
- ✓ Operational safety of the monitored plant
- ✓ Energy saving through optimised operating status
- ✓ Installation site indoors and outdoors (with protective roof)



Comparison between HLU smartControl and easyControl

With the smartControl and HLU easyControl you will have two useful systems for monitoring the status of your fans.

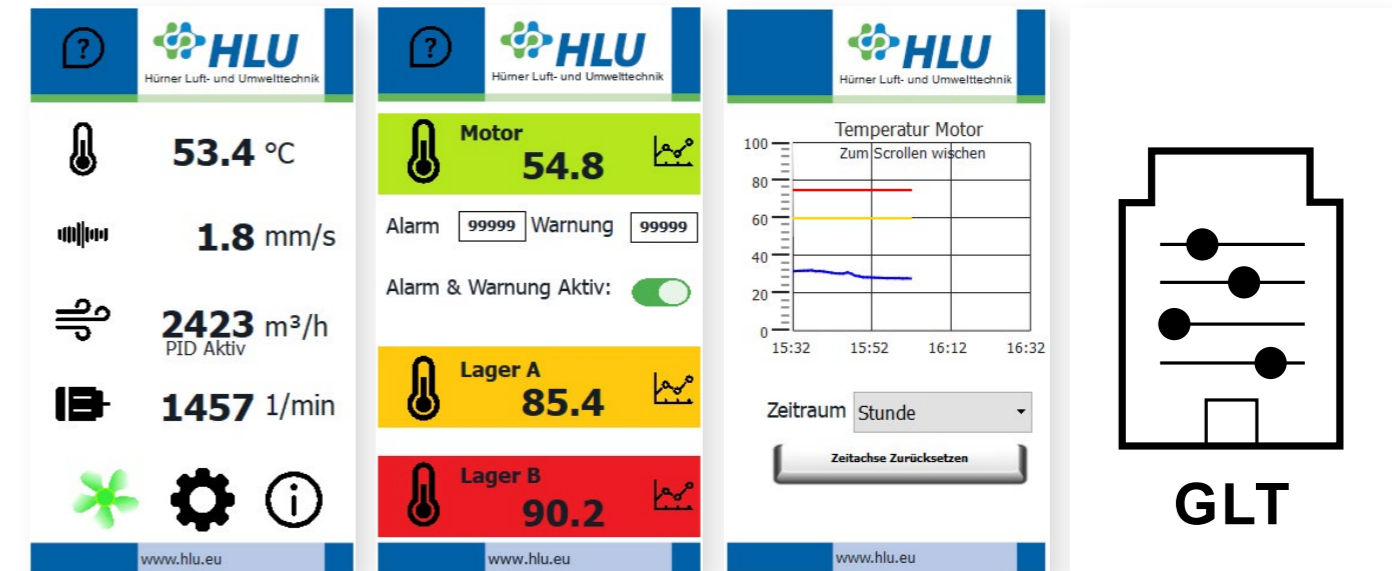
Preconfigured and ready for immediate use, all of the data are pooled in one place with the HLU smartControl. With an HLU smartControl you can control and ensure the smooth operation of a fan.

If you have individual wishes for monitoring a fan above and beyond this, or have a large number of fans, then the HLU easyControl is the right product for you. The HLU easyControl is a customised system with adjustable sensors, which is configured and built in accordance with your specific requirements. The table below shows the differences between the two systems in detail:

Features	HLU smartControl	HLU easyControl
Option for connection with the HLU easyControl web portal	no	yes
Number of additional sensors	3	unlimited
EC motor	yes	yes
Individual adjustments possible	no	yes
Intuitive user interface to display the measured values	yes	yes - can be adjusted at customer's request
Bearing temperature monitoring	with direct drive	with direct and belt drive
PID outlets for constant volumetric flow or pressure	yes - for 1 fan	yes - for several fans
Belt monitoring	no	yes
Interface	modbus TCP and RTU interface	interface can be adjusted according to customer wishes
Vibration monitoring	yes	yes, with additional monitoring of the bearing condition (bearing damage to the motor can be identified well in advance)
Trend analysis of the measured data over a period of 5 years	yes	yes
Possibility to connect to building management systems (BMS)	yes	yes
Central interface	for 1 fan	for up to 5 fans

Functional Overview HLU smartControl

What are the benefits of using the HLU smartControl?



Intuitive commissioning and operation

Preconfigured and ready for use straight away.

Just like a smart phone, can be operated intuitively with a touch display.

Navigation through self-explanatory menus. They display all of the important values that can be edited directly.

Identify problems at a glance (Where? Why?)

All of the measured values have limit values pre-parametrised in the factory that are individually set to the fan.

Recommendations for action in the event of warnings or alerts can be taken straight from the display or the documentation.

Visualisation of the measured values in diagrams

Storage and visualisation of the measured values over a period of 5 years allows a targeted analysis of the operating status directly on the fan.

Connection to building management systems (BMS) possible

All data available on site via the display. Moreover, it can be connected to the building management system via a central interface.

HLU easyControl - Monitoring and Control for Fans

Do you want to keep an eye on your fans and their values at all times and to be able to evaluate and analyse operating statuses? Do you want predictive maintenance and monitoring for your fans? Do you also need a system that can be adapted to your individual needs?

The HLU easyControl is such a customised system with adjustable sensors that we configure according to your needs. The number of sensors to be monitored is unlimited here.

You can record all the values of your fan and the

Adaptable to the customer

Temperature

- Medium temperature
- Bearing temperature
- Motor temperature

Volume flow / pressure

Vibration

- Motor
- Impeller

Operating speed

Motor speed

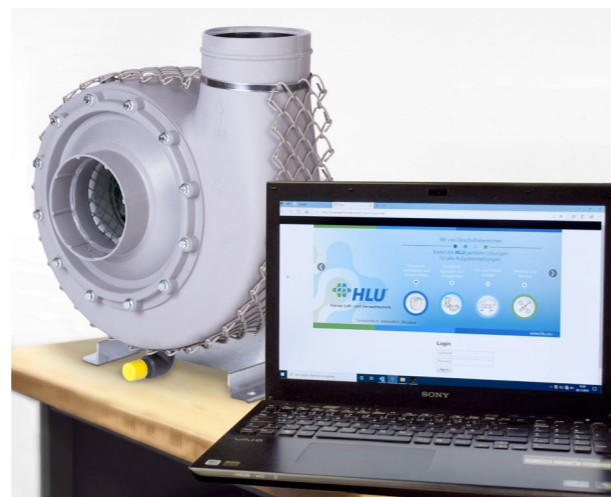
Motor data

- Power
- Frequency
- Performance



associated motors. Maintenance can be planned early on the basis of the default limit values and alarms, which can be adjusted at any time. Thus, in the worst case scenario, you prevent a fault or standstill in your system and can permanently ensure smooth operation.

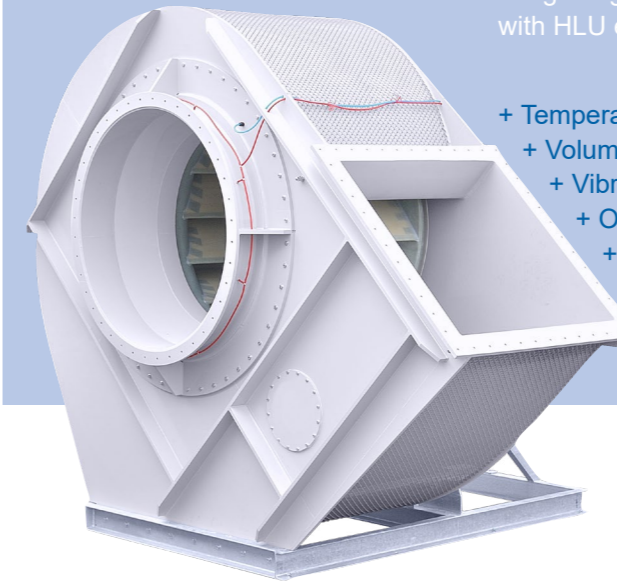
The HLU easyControl offers the convenient means to incorporate the components directly in the building management system, thanks to the integrated cloud and LAN connection. They can be monitored and controlled via an intuitive user interface, including externally if required.



HLU easyControl for fans with VFD operation

Integrating plastic fans into your building management system with HLU easyControl enables you to monitor:

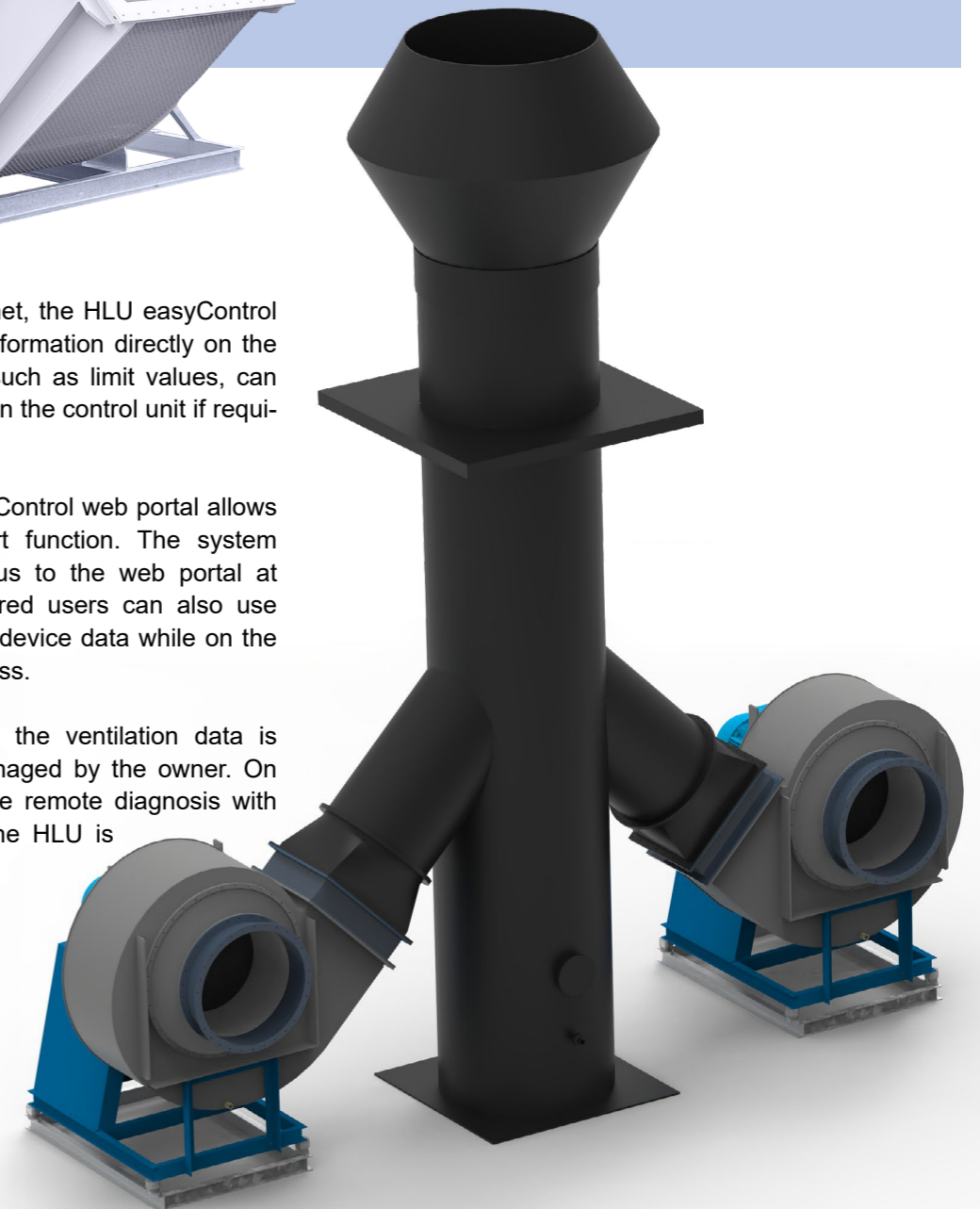
- + Temperature
- + Volumetric flow / pressure
- + Vibration
- + Operating speed
- + Bearing status
- + Motor data



Via the local control cabinet, the HLU easyControl can display all relevant information directly on the fan. Preset parameters, such as limit values, can also be changed directly on the control unit if required.

In addition, the HLU easyControl web portal allows a comprehensive support function. The system transmits its current status to the web portal at regular intervals. Registered users can also use this to query and change device data while on the move, with protected access.

Thus, on the one hand, the ventilation data is archived and can be managed by the owner. On the other hand, immediate remote diagnosis with subsequent support by the HLU is possible.



www.hlu.eu

Hürner Luft- und Umwelttechnik GmbH

Ernst-Hürner-Straße
35325 Mücke-Atzenhain
Germany

Tel. +49 6401 9180 - 0
Fax +49 6401 9180 - 142

info@hlu.eu

Am Kronberger Hang 3
65824 Schwalbach am Taunus
Germany

Tel. +49 69 78 99 00 - 0
Fax +49 69 78 99 00 - 50



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