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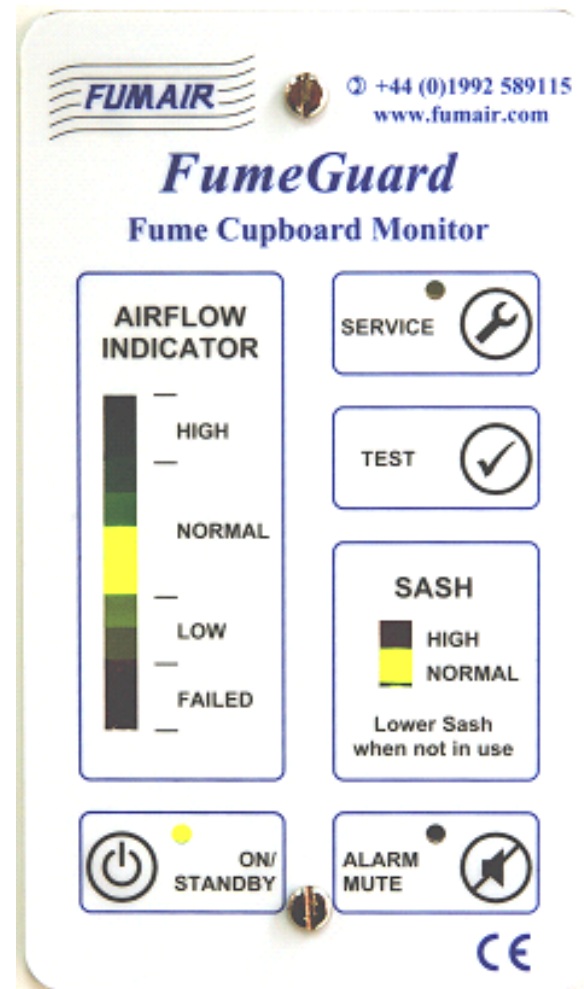
FumeGuard Controller

The low cost airflow monitor with big features

The Fumair FumeGuard is a low cost microprocessor controlled airflow monitor and control system, ideally suited for fitting to new or existing fume cupboards, but versatile enough to be used with any extraction equipment where a critical airflow requires monitoring.

Features include:

- High intensity coloured LED scale representing airflow
- Volt-free changeover relays for switching extract and supply air fans
- Audible and visual airflow failure alarms
- Mains supply failure alarm via an internal NiCad battery
- Audible and visual sash over-height alarms (via a suitable switch) with 5-minute mute facility
- Delay facility, which keeps the extract and supply air fan running for 1 minute after switching off in order to purge the fume cupboard
- Instrument test facility, which simulates an airflow failure and tests the alarms
- Service alarm to warn the user that the fume cupboard is due a service visit. The service period is adjustable and can be set to either monitor the number of days since the last service or, for use with filtered/ recirculating fume cupboards, the hours of use since the filter was last changed
- Remote on/off facility for control via building management systems or time switches
- Keypad lock facility, to prevent unauthorised use
- Volt-free relay outputs for airflow-fail and airflow-proven
- 2 ranges of response, to prevent nuisance alarming in turbulent conditions
- 2nd range of monitoring and alarm functions for 2 speed operation in conjunction with an inverter speed control or similar
- Can be supplied with an integral d.o.l. starter or our popular inverter-drive system



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The Advantages of Inverter Control

Traditional fume cupboard extract systems use fans running at pole (full) speed with dampers fitted in the duct to control the amount of air being extracted from the fume cupboard. These systems are inefficient and often noisy. Belt-driven fans are also commonly used but these require regular maintenance and belt changes. The inverter offers many advantages over these traditional systems, including:

More control

The inverter allows fine-tuning of the speed and characteristics of the fan motor to achieve exactly the required extract volume at the fume cupboard.

Energy saving

The inverter allows the fan to run slower. A slower running motor absorbs considerably less energy, resulting in reduced costs.

More protection

The inverter features over-current, over-voltage, under-voltage and thermal protection, auto-restart following a mains failure and onboard diagnostics.

Quieter extraction

Unlike traditional methods of fume extraction, the use of an inverter allows fine tuning of the speed of the fan; there is no need for noise-creating volume control dampers in the duct and, as the fan is generally running slower, the noise generated by the fan itself is greatly reduced.

Increased safety

A programmable "idle" speed continues to vent the fume cupboard and any attached storage cabinets even when the fume cupboard is not in use, preventing the build-up of fumes and the potential for back draughts.

No maintenance

There are no belts to maintain/replace as with traditional belt-driven fans. Unlike most VAV systems there are no moving parts in the control system.

Easy adjustment

The speed of the fan can be very simply and quickly adjusted to overcome dirty filters etc, or to achieve a new face velocity.

Simplified wiring

The control system AND extract fan can derive their electrical power from a single 230v 1-phase power supply (usually above the fume cupboard).

Room extract

With its programmable "idle" speed the fume cupboard extract system can be used to supplement the general laboratory extract system, or replace it completely.



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