

▶ LABCONTROL ▶▶



Precision increased.  
Transparency increased.  
EASYPrecision Drive

**TROX**® **TECHNIK**  
The art of handling air

## ► High precision volume flow control ►►

### The new EASYLAB control system – TROX HPD High Precision Drive

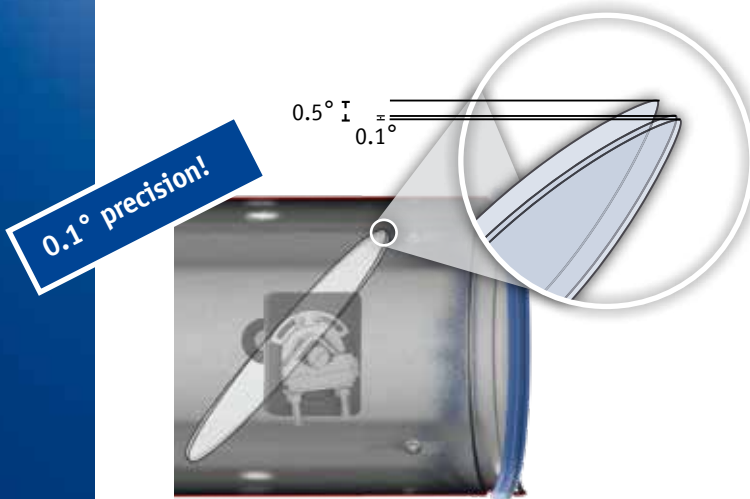
Fast and precise volume flow and pressure control are incredibly important, particularly in critical areas, such as labs or clean rooms; these rooms are almost air tight – and becoming even 'tighter'.

Controllers with fast-running actuators that can move a damper blade within 3 seconds by  $90^\circ$  with a resolution of  $0.5^\circ$  are good enough for many projects. More has not been possible. Until now.

Now we are going beyond this limit – showing that more *is* possible.



*The new High Precision Drive actuator allows for even more precise volume flow control*



*Positioning accuracy improved from  $0.5^\circ$  to  $0.1^\circ$*

### High precision control

The new brushless TROX High Precision Drive actuator has a digital interface and allows for positioning the damper blade with a precision of  $0.1^\circ$ ! For the first time it is possible to position the damper blade even more precisely than before and hence to achieve the required volume flow rates and volume flow rate differences more precisely.

This degree of performance makes the electronic system almost as good as pneumatic control systems, which do provide excellent precision, but are also very complex.

### Digital communication for better monitoring

The digital interface between an EASYLAB controller and TROX HPD not only allows for sending information to the actuator, it also allows for reading out important information such as the operating status or the exact damper blade position; and it helps provide feedback and initiate further processing of the data.

For example, the new EASYConnect software shows error messages in real time and helps reduce manual maintenance since error sources are immediately visible.

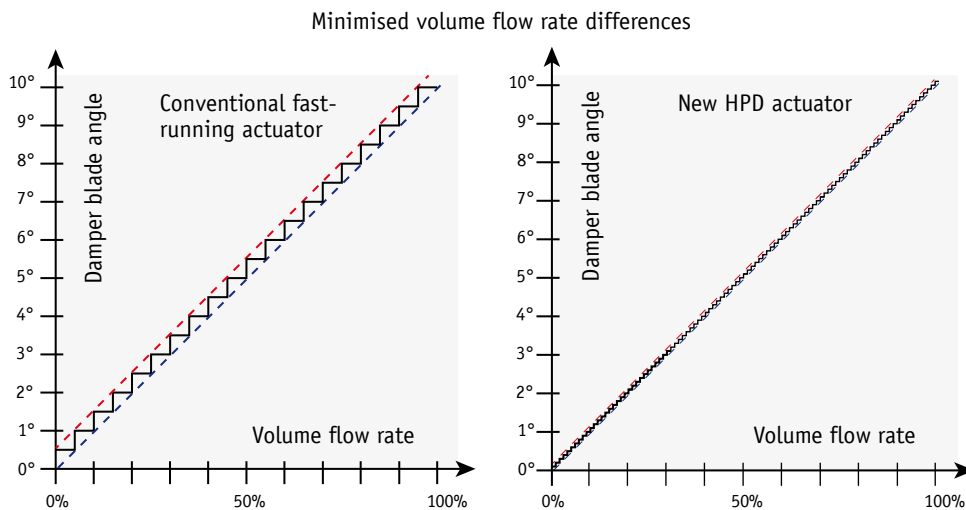


*Digital communication allows for monitoring many values in real time*

## ► EASYLAB now even better ►►

### Advantages at a glance

- Simple solution for critical, 'air tight' rooms
- Exact volume flow rate and differential pressure control due to five times better precision of 0.1°
- All data at a glance – monitoring of operating values and messages
- Low maintenance thanks to hardware monitoring
- Digital interface
- Lower power consumption than similar actuators
- Brushless fast-running actuator (approx. 3 s for 90°), low wear and tear



*The digital interface and the actuator with an even higher resolution allow for the precise control of volume flow rates and differential pressures*

### EASYLAB goes digital

TROX EASYLAB is continuously being improved. Connecting additional EASYLAB controllers with the proven, integral plug and play communication cable simplifies integration enormously. The system automatically recognises expansion modules; this ensures continuous data exchange and communication with higher level systems (e.g. central BMS) via common protocols such as LonWorks, Modbus or BACnet.

The new digitally connected actuator is another milestone: it adds to the plug and play functionality of the system and increases the system's efficiency.

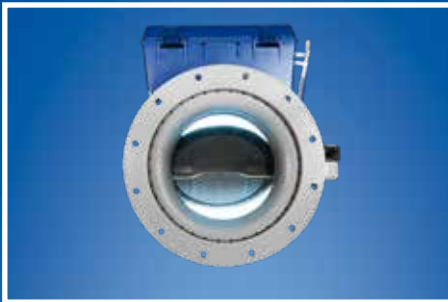
Save time and money – in installation, operation and maintenance!



### Even more areas of application

- Labs
- Clean rooms
- Isolation wards
- Production, e.g. pharmaceutical and semiconductor industries





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