



echeuch
TECHNOLOGY FOR CLEAN AIR

ORIGINAL FILTER CONTROL UNITS MADE BY SCHEUCH

SIMPLE, STATE-OF-THE-ART OPERATION



LEADING WITH INNOVATION

STANDARDISED CONTROL UNITS FOR INDIVIDUAL USE

The system control unit has a major impact on the efficiency of an extraction, dedusting or emissions cleaning system. It is vital in determining the economic workflow of a component or a complete system in line with a given function definition. To ensure a high degree of efficiency, operational safety and system availability, the quality and functional design of the control unit, as well as its integration into the overall process system, are key.

Around 40 years ago at Scheuch, we decided to develop, produce and test our own control units for filter systems in house and we haven't looked back. After all, the only way to ensure that a cleaning system will separate dust efficiently is to use the right control unit. We incorporate our engineers' comprehensive expertise on filter cleaning, the information exchanged between the individual



internal departments and also the information resulting from applications in various fields into the development of our control units. Customers receive direct technical support. Changes, adaptations and any potential repairs can be implemented quickly.

IN SHORT

- Around 40 years of experience
- Development and production from a single source
- Direct support from Scheuch
- Control units and spare parts available immediately from the warehouse
- Control units do not need to be adapted to the order
- No programming knowledge required

PULSEMASTER BASIC

THE RELIABLE PARTNER FOR SMALL FILTER SYSTEMS

- Can control up to 15 valves
- Basic functions for minimum requirements
- Compact and robust design



PULSEMASTER BASIC+

EXTENDED FUNCTIONS FOR INDIVIDUAL REQUIREMENTS

- User-friendly menu navigation and sophisticated graphic visualisations
- Well-engineered software to guarantee a high degree of reliability
- Differential pressure measurement in the standard design
- Can be used by customers all over the world thanks to multi-lingual display
- Can be connected to a superordinate control thanks to the optional fieldbus interface



The PulseMaster Basic+ boasts optimum usability and global applicability.

PULSEMASTER ADVANCED

THE NEW GENERATION OF FILTER MANAGEMENT



The new PulseMaster Advanced stands out thanks to its logical menu navigation.

With the PulseMaster Advanced control unit, Scheuch is launching a new era of filter management. The new-generation device is fitted with a powerful processor and a touchscreen with full graphic display and user-friendly menu navigation. In order to avoid errors resulting from misunderstandings in a global workplace, there is a strong reliance on the use of representative symbols and images. The texts can easily be implemented in different languages at the request of the customer.

MODULAR STRUCTURE

In principle, the PulseMaster Advanced can cover up to four filter units. One filter unit corresponds to one to seven valves. Up to 15 power modules can be connected via a serial bus system (CAN bus) in total, corresponding to a maximum of 60 filter units. The device can be integrated into the customer's preferred bus environment by means of an optional fieldbus interface.

SIMPLE MAINTENANCE

Great value is placed on simple maintenance of the control unit. So, for example, a backup copy of the settings can be saved to an external data carrier, and restored if necessary. Passwords prevent unauthorised access to the settings. Potential problems can be solved quickly by remote maintenance. In many cases, this eliminates the need for a service technician to travel to the site.

OPTIONAL SENSOR MODULES

The PulseMaster Advanced can optionally be enhanced with sensor modules. This makes it possible to gather all system-specific data for measurement and control engineering in the environment of the device.



PULSEMASTER PREMIUM

HIGH-END FILTER CONTROL TECHNOLOGY FROM SCHEUCH



The shutdown of a plant means loss of production, which in turn costs money, wastes time and causes stress. This means that the highest level of reliability is the key when it comes to ensuring maximum availability of a filter system. The PulseMaster Premium control unit developed by Scheuch has a major impact on the operational safety of a filter system and is therefore one of the most crucial factors guaranteeing system availability of more than 99%.

Specially developed to control the cleaning of process filters, the PulseMaster Premium adapts the cleaning process as efficiently as possible to different operating modes. The sensors integrated in the filter gather process-specific values such as temperature, gas flow rate and pressure in order to set the ideal filter operating point. As a result, the required cleaning pressure can be set automatically, even in fluctuating operational conditions.

✓ ADVANTAGES

- Longer filter bag idle time: the cleaning pressure and frequency are set automatically depending upon filter pressure difference.
- Lower compressed air consumption: the Pulsemaster Premium is parameterised to maximum efficiency via a combination of settings, consequently requiring considerably less compressed air.
- Increased filter availability due to integrated emergency programme: individual chamber modules switch into autonomous mode when needed whereby the respective module is able to directly control the cleaning itself.
- Data exchange via fieldbus interface (ProfibusDP, DeviceNET, ProfiNet, Ethernet/IP)

The logo for Scheuch, featuring the word "scheuch" in a bold, blue, lowercase sans-serif font. The letter 'e' is stylized with a horizontal bar extending to the right.

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