

## Econometer - Economizer

### for Ultra-Filter DF 0035 - DF 1100

Differential pressure monitoring in form of an easy change indicator (Econometer) or with indication of the differential pressure and microprocessor-control (Economizer).

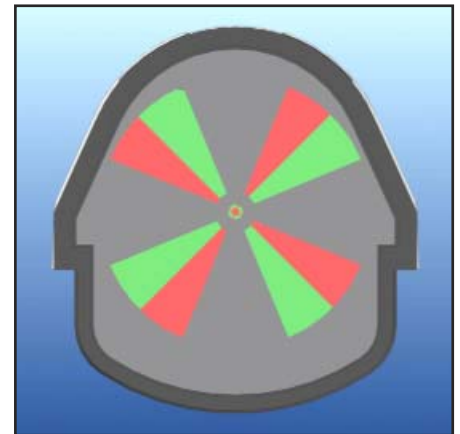
#### Product description:

The filters Ultra-Filter DF are intended for the processing of compressed air or other gases in different areas of applications.

The intelligent overall concept of the filter unites the following characteristics:

- high performance
- efficiency
- compactness
- easy of use
- flexibility
- safety

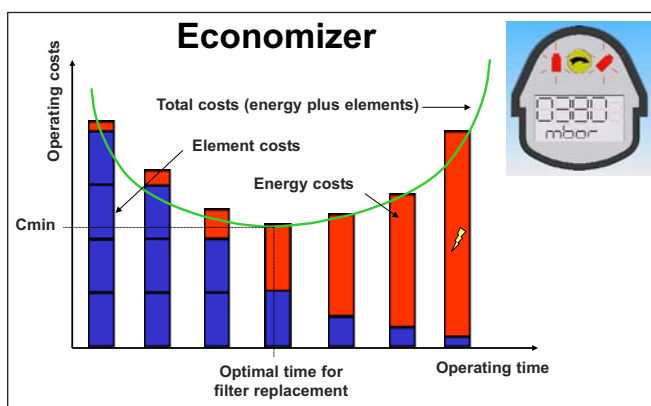
Further energy cost savings are achieved by the timely replacement of used filter elements. The most economic time for this action is determined by the Economizer. It continuously measures the differential pressure. The integrated micro-processor evaluates the measurement data and compares the higher energy costs caused by pressure loss with the costs of a new filter element. The most cost-effective replacement time for the filter element is calculated and LED's then signal that "Filter exchange" is necessary.



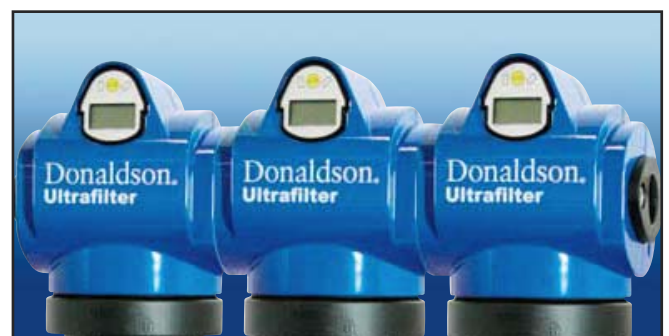
Econometer



Economizer



Savings by using the Economizer



Economizer in installed condition

Operating signals can be remotely-monitored and, alternatively, the differential pressure signal can be transmitted via a standard analog interface (4-20 mA).

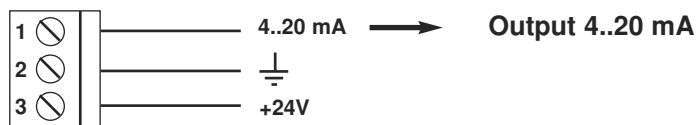
## Ultra-Filter DF 0035 - DF 1100

### Technical Data

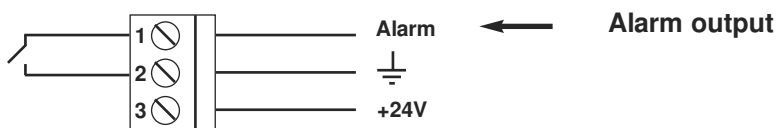
Features:	Benefits:
Easy installation, Econometer/ Economizer are slid simply into the filter head of the DF filter housing (no tools necessary)	Easy to service construction
Econometer/ Economizer can be rotated (by exchange of the covers of the filter head). No new calibration necessary	Flexible adjustment to the flow direction
Economizer can be operated and adjusted by only one mode button	User friendly realisation
Extensive adjustment of the Economizer with the software menu	Individual adjustment at the local operating conditions and energy costs
Operation of the Economizer with standard batteries	Easy availability of spare batteries
Economizer provides an analogue-interface for long-distance data transmission as well as an alarm contact	Extensive possible evaluation of the determined measurement data; remotely-monitored time for necessary filter exchange, remotely-monitored function of the Economizer

Specifications Econometer - Economizer:	
Econometer	Mechanical differential pressure indicator
Economizer	Differential pressure indicator for calculation of the most economical time of filter exchange
Indication range of differential pressure	0-500 mbar
Operating-temperature	+1,0 °C / +65°C
Specifications-Economizer:	
Display	LED display with 40 elements
Power supply	2x Battery 1,5 V Type AAA (Mignon), optional via mains adapter (24 VDC)
Outlet 4-20 mA	Possibility for long-distance data transmission
Alarm contact	Possibility of remotely-monitored time for necessary filter exchange

### Interfaces - Economizer



Output for data transmission. Analog output 4-20 mA, output resistance max. 500 Ω.



Alarm output for remote control, max. current 0.5 A.

The selection of the outputs (Alarm contact or output 4-20 mA) is done via software by using the mode button and the display of the Economizer.