



Donaldson
FILTRATION SOLUTIONS

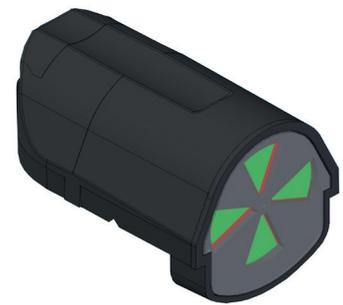
Compressed Air Filtration

Ultra-Filter DF 0035 - DF 1100

ECONOMETER - ECONOMIZER

MAIN FEATURES & BENEFITS:

- Signalling of pollution degree by red/green indicator (Econometer) resp. by digital differential pressure display + LED (Economizer)
- Econometer/ Economizer are slid simply into the filter head of the DF filter housing (no tools necessary)
- Econometer/ Economizer can be rotated (by exchange of the covers of the filter head), flexible adjustment to the flow direction
- Extensive adjustment of the Economizer with the software menu
- Economizer provides an analogue-interface for long-distance data transmission as well as an alarm contact



Econometer



Economizer

INDUSTRIES



- Chemical and pharmaceutical industry



- PCB assembly and CD manufacturing



- Surface finishing



- Machine building industry and plant engineering / construction



- Power plants

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Donaldson®
Ultrafilter

PRODUCT DESCRIPTION

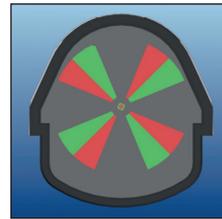
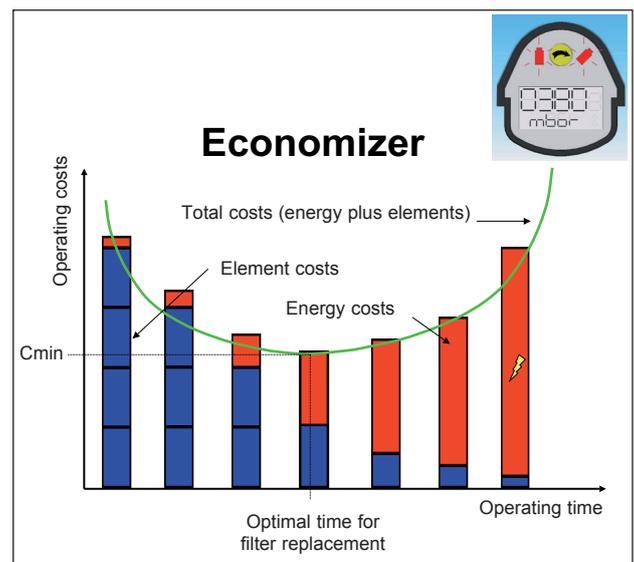
The filters Ultra-Filter DF are intended for the processing of compressed air or other gases in different areas of applications.

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.

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

**Econometer****Economizer****Filter combination with adapter****Savings by using the Economizer**

PRODUCT SPECIFICATIONS

Features	Benefits
Signalling of pollution degree by red/green indicator (Econometer) resp. by digital differential pressure display + LED (Economizer)	Prevention of pressure losses and energy costs by indication of the economically reasonable filter change
Econometer/ Economizer are slid simply into the filter head of the DF filter housing (no tools necessary)	Easy installation
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; remotly-monitored time for necessary filter exchange, remotly-monitored function of the Economizer

Specifications Econometer

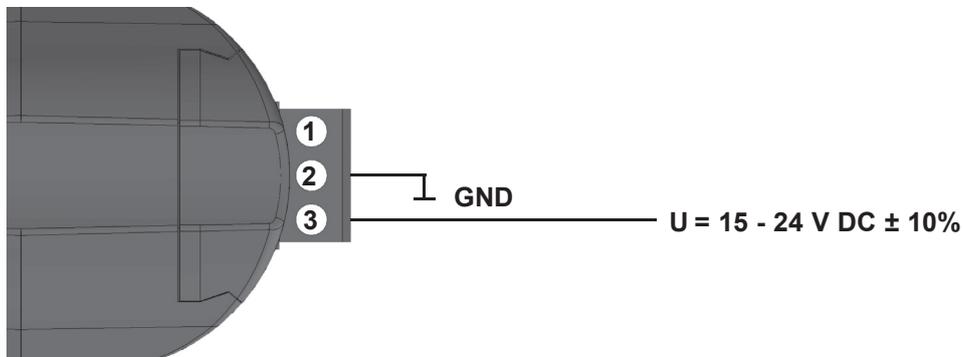
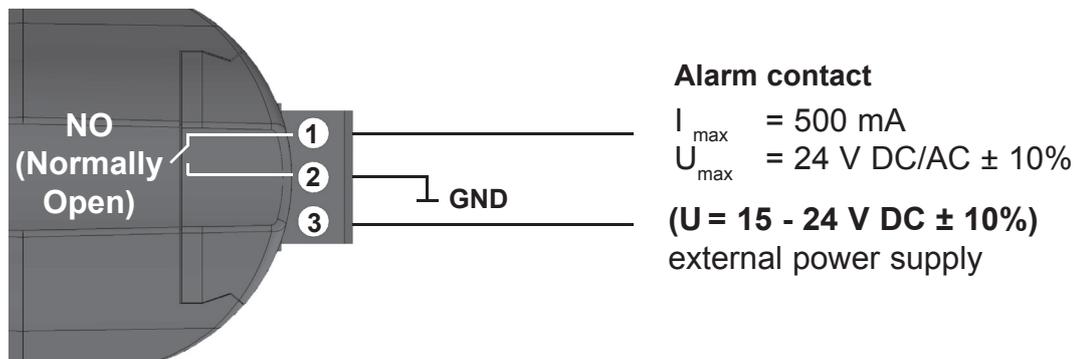
Mechanical differential pressure indicator	
Indication range of differential pressure:	0-500 mbar
Operating temperature:	+1,0 °C / +65°C

Specifications Economizer

Differential pressure indicator for calculation of the most economical time of filter exchange	
Indication range of differential pressure:	0-300 mbar (preset 300 mbar)
Operating temperature:	+1,0 °C / +65°C
Display:	LED display with 40 elements
Power supply:	2x Battery 1,5 V, Type AAA (Mignon), optional via mains adapter (24 VDC)
Output 4 - 20 mA:	Possibility for long-distance data transmission
Alarm output:	Possibility of remotly-monitored time for necessary filter exchange

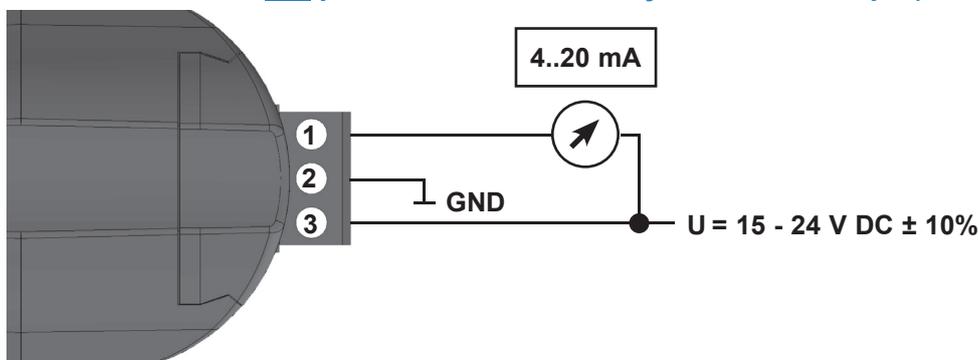
ELECTRICAL CONNECTION

Operation with external power supply

Alarm output (not possible simultaneously with output 4..20 mA for data transmission)

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.

Output 4..20 mA (only available with external power supply, not possible simultaneously with alarm output)

Output for data transmission.

Analog output 4-20 mA, output resistance max. 500 Ω .