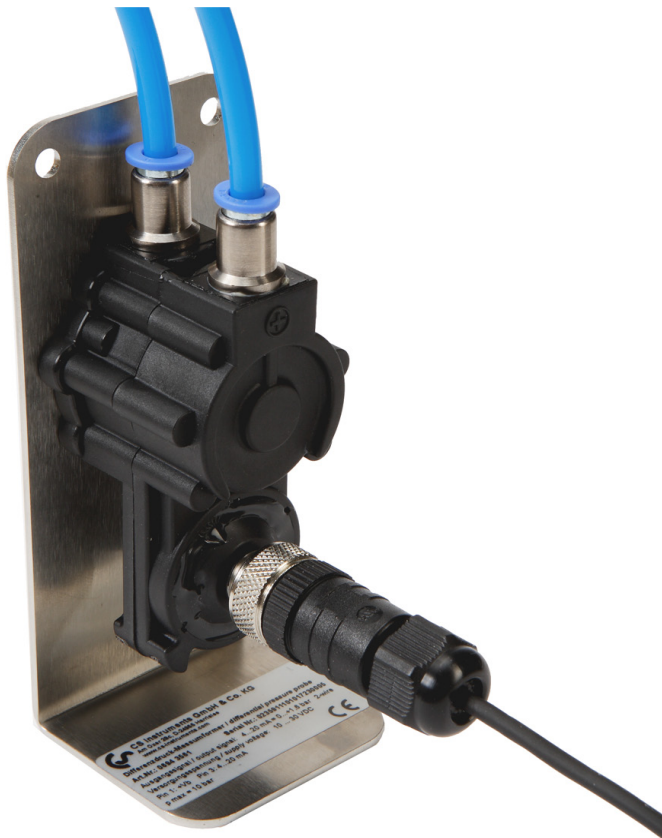




## Affordable differential pressure sensor for testing filter performance.

The filter effectiveness is guaranteed by measuring the differential pressure across the filter element (an indication of how much the filter element is soiled). The sensor has a compact design with mounting bracket and sensor socket combined in one.



### Advantages at hand:

- Pressure drops (loss in energy) kept at a minimum
- Filter elements are being exchanged according to the differential pressure specifications of the manufacturer and not by a measure of time (activated carbon filter excluded). This ensures maximum performance of the filter element at all times.



Typical operation of the differential pressure sensor: Connection with two PE hoses before and after the filter element.

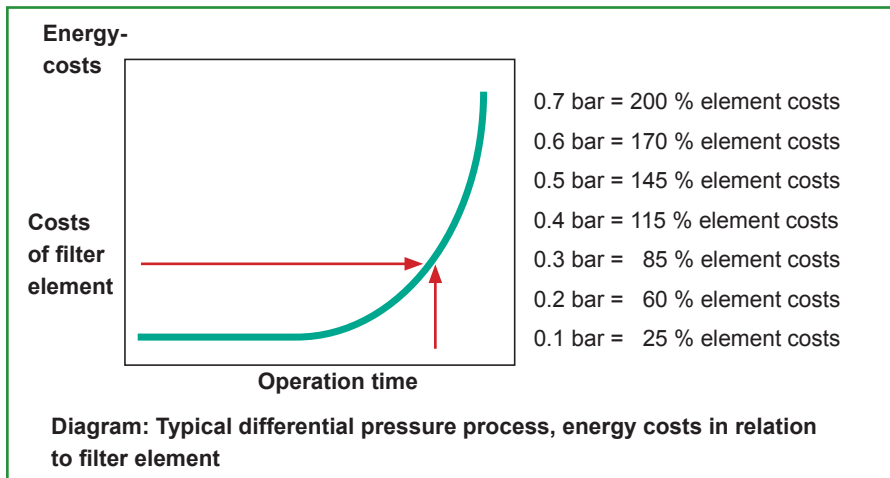
### Technical data:

<b>Meas. range</b>	0 ... 1.6 bar differential pressure
<b>Max. system pressure</b>	10 bar
<b>Max. overload capability two-way</b>	15 bar
<b>Max. overload capability one-way</b>	
+ page	15 bar
- page	10 bar
<b>Bursting pressure</b>	60 bar
<b>Total error</b>	2.0 % of full scale
<b>Output</b>	4 ... 20 mA two-wire
<b>Power supply</b>	DC 10 ... 30 V at output 4 ... 20 mA
<b>Operating temperature ambient</b>	-20 ... +80 °C
<b>Process connections</b>	2× G 1/8 inner thread including plug-in coupling for 6-mm hose
<b>Electrical connection</b>	Round plug M12 × 1

Description	Order No.
<b>Differential Pressure Sensor 1.6 bar diff</b>	<b>0694 3561</b>
Connection cable for sensors 5 m with open ends	0553 0108
Connection cable for sensors 10 m with open ends	0553 0109
Connection cable for pressure, temperature or external sensors on mobile instruments, ODU / open ends, 5 m	0553 0501
Connection cable for pressure, temperature, or external sensors on mobile instruments, ODU / open ends, 10 m	0553 0502



The longer a filter element is in use the dirtier it gets, hence, increasing the differential pressure. This has a direct impact on its performance and the energy loss – see diagram below.



## PI 500 Set for mobile measurement



1	PI 500 portable measuring instrument with integrated data logger	0560 0511
2	Differential Pressure Sensor 1.6 bar diff	0694 3561
3	Connection cable for pressure, temperature or external sensors on mobile instruments, ODU / open ends, 5 m	0553 0501

## DS 52 Set for stationary measurement



1	DS 52 LED display in wall housing	0500 0009
2	Differential Pressure Sensor 1.6 bar diff	0694 3561
3	Connection cable for sensors 5 m with open ends	0553 0108