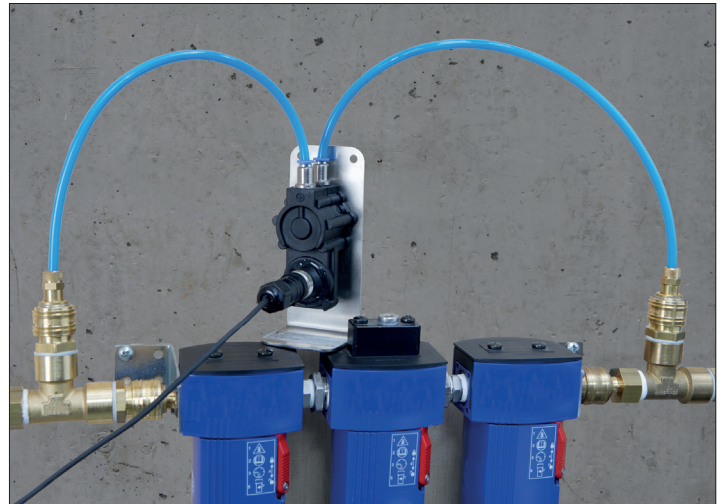




## Competitive differential pressure probe for testing on compressed air systems



Typical application of the differential pressure sensor: connection with two PE hoses before and after the filter elements.

### Requirements in practice:

- Timely replacement of the filter elements
- At a differential pressure of >350 mbar at the latest, the filter elements should be replaced (active carbon filters are excluded from this)

DESCRIPTION	ORDER NO.
Differential pressure probe 1.6 bar diff.	0694 3561
Connection cable for probes 5 m, with open ends	0553 0108
Connection cable for probes 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, 10 m	0553 0502

### TECHNICAL DATA

<b>Measuring range:</b>	0 ... 1.6 bar difference
<b>Max. system pressure:</b>	10 bar
<b>Max. overload capability two-sided:</b>	15 bar
<b>Max. one-sided overload capability:</b>	
+ side	15 bar
- side	10 bar
<b>Bursting pressure:</b>	60 bar
<b>Total error:</b>	2.0% of the full scale
<b>Output:</b>	4 ... 20 mA two-wire
<b>Power supply:</b>	10 ... 30 V for output 4...20 mA
<b>Ambient operating temperature:</b>	-20 ... +80 °C
<b>Connections:</b>	2× G 1/8" female thread incl. plug-in coupling for 6 mm hose
<b>Electrical connection:</b>	Round plug M12 × 1

The longer a filter element is in use, the quicker the differential pressure is rising, and consequently the costs – see diagram below.

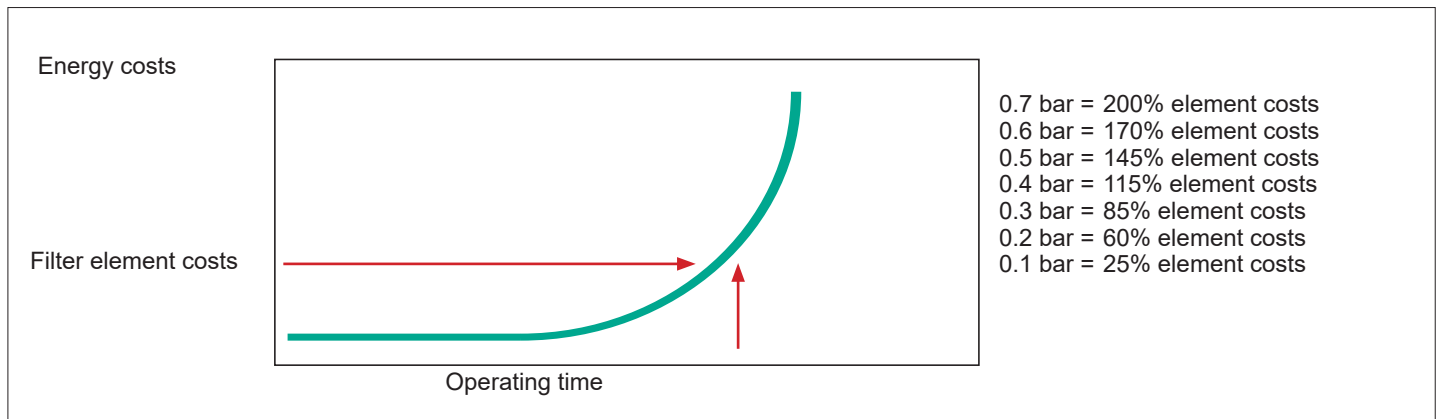
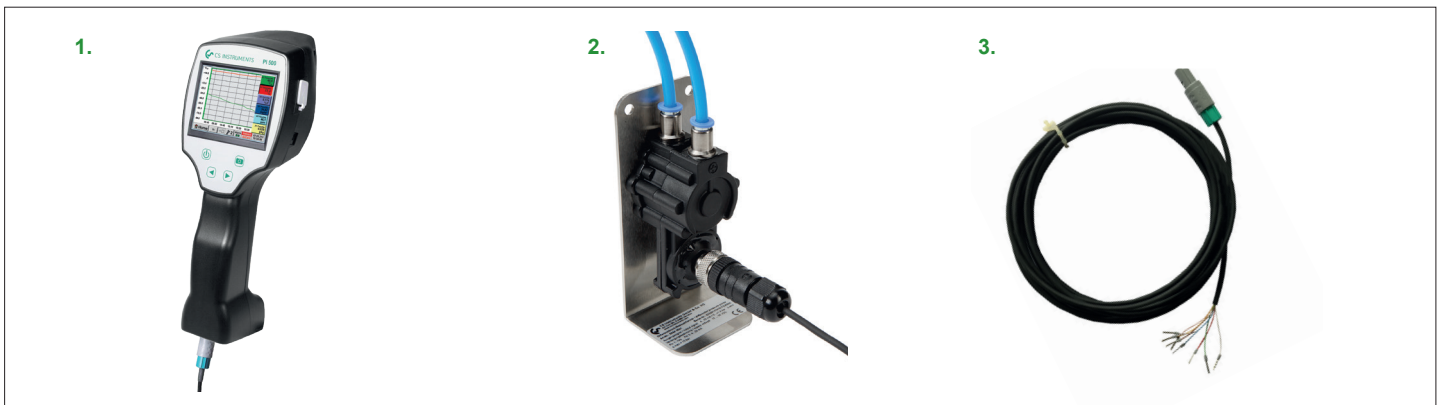


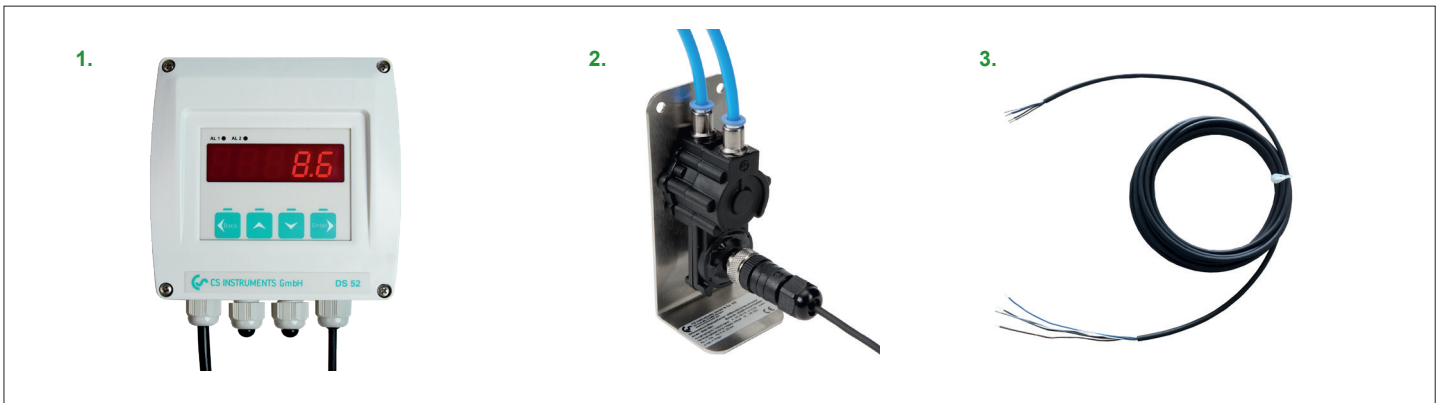
Fig.: Typical differential pressure process, energy costs in relation to filter element costs

### PI 500 set for mobile measurement



- |   |           |
|---|-----------|
| 1. PI 500 portable handheld device with integrated data logger  | 0560 0513 |
| 2. Differential pressure probe 1.6 bar diff.  | 0694 3561 |
| 3. Connection cable for pressure, temperature or external sensors to mobile devices, ODU / open ends, 5 m | 0553 0501 |

### DS 52 set for stationary measurement



- |  |           |
|--|-----------|
| 1. DS 52 LED process display in the wall housing   | 0500 0009 |
| 2. Differential pressure probe 1.6 bar diff.       | 0694 3561 |
| 3. Connection cable for probes 5 m, with open ends | 0553 0108 |