

## Differential pressure measuring transducer DF

DF...



### Technical data

<b>Measuring principle:</b>	inductive
<b>Overload capacity:</b>	5fold, max. system pressure with $\Delta p$ measurements 1 bar, higher overload factors possible on request
<b>Medium:</b>	non-aggressive types of gas
<b>Parts in contact with measuring medium:</b>	Ni, Al, CuBe, Pu
<b>Accuracy / linearity:</b>	$\pm 1\%$ of final value
<b>Option:</b>	$\pm 0.5\%$ and $\pm 0.2\%$ of final value
<b>Hysteresis:</b>	$\pm 0.1\%$ max. of final value
<b>Auxiliary energy:</b>	15 ... 30 V=
<b>Flow of auxiliary energy:</b>	$\leq 0,05\%$
<b>Output signal:</b>	0 ... 10 V, (working resistance 2 K)
<b>Current consumption:</b>	approx. 10 mA, without load
<b>Onset temperature:</b>	$T_{90}$ approx. 0,02 sec.
<b>Temperature drift values:</b>	zero $\pm 0.3\%$ of final value/10 K max. margin $\pm 0.3\%$ of final value/10 K max.
<b>Temperature range:</b>	specific range: 10 ... 50°C
<b>Storage temperature:</b>	-10 ... +70°C
<b>Long-term stability:</b>	$\pm 0.5\%$ per year / type
<b>Pressure connections:</b>	$\varnothing 6.5 \times 11$ (for flexible hoses, $\varnothing 6$ mm)
<b>Electrical connection:</b>	screwed cable gland M12x1.5, screw terminals
<b>Degree of protection:</b>	IP 65
<b>Protection class:</b>	0
<b>Sensor volume:</b>	approx. 3 ml
<b>Increase in volume:</b>	approx. 0.2 ml at nominal pressure
<b>Colour:</b>	grey (upper part RAL 7016, bottom part RAL 7035)

### Application

For the supervision of filters and the measuring of filling levels in the ventilation-, air conditioning and clean room engineering sphere.  
Also suited for the measuring of over- and negative pressures as well as of differential pressures that occur in non-aggressive gas-form types of media.

For conversion of pressures, see table on page 141.

DF...D (display)



Type	Item No.	Power supply	Measuring range	Output	PG
DF 50 UGT 3	G8000275	15 ... 30 V=	0 ... 50 Pa	0 ... 10 V	J
DF 100 UGT 3	G8000276	15 ... 30 V=	0 ... 100 Pa	0 ... 10 V	J
DF 300 UGT 3	G8000277	15 ... 30 V=	0 ... 300 Pa	0 ... 10 V	J
DF 500 UGT 3	G8000278	15 ... 30 V=	0 ... 500 Pa	0 ... 10 V	J
DF 1000 UGT 3	G8000279	15 ... 30 V=	0 ... 1.000 Pa	0 ... 10 V	J
DF 2000 UGT 3	G8000283	15 ... 30 V=	0 ... 2.000 Pa	0 ... 10 V	J
DF 3000 UGT 3	G8000280	15 ... 30 V=	0 ... 3.000 Pa	0 ... 10 V	J
DF 7000 UGT 3	G8000281	15 ... 30 V=	0 ... 7.000 Pa	0 ... 10 V	J

### Accessory

Type	Item No.		PG
JZ-06/1	H5309229	Connection set including plastic conduit connections, 2 x 90° elbows, 2 extension pieces (90 mm), 4 self-tapping screws, 2 m hose (outside $\varnothing 6$ mm).	K