



Pressure & Air Velocity

Pressure sensors installed in air-conditioning and cooling systems have to withstand extreme conditions. Thus, tailor made pressure sensors resisting hardest applications are the solution.

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» PS – Differential Pressure Switch



Application

Adjustable differential pressure switch PS for monitoring the differential pressure of air and other nonflammable and non-aggressive gases.

Possible applications: Monitoring of air filters, fans, industrial cooling air cycles as well as overheating protection, control of air and fire dampers, anti-freeze with heat exchangers.

TECHNICAL DATA

Measuring ranges	PS 300:	30... 300Pa
	PS 500:	30... 500Pa
	PS1500:	100...1500Pa
	PS4500:	500...4500Pa
Differential gap	PS 300:	20Pa
	PS 500:	20Pa
	PS1500:	80Pa
	PS4500:	180Pa
Max. working overpressure	50kPa	
Operating temperature	-20°C...+60°C	
Terminal clamp	Screwing terminal, max. 1,5mm ²	
Enclosure/Cover	ABS/PC	
Connecting tube	PVC, soft	
Cable entry	M16	
Protection	IP54	
Dimensions (LxBxH)	105mm x 73mm x 63mm	
Standard accessory included	2 fixing screws	
	2 plastic duct connectors	
	2m PVC flexible tube	
Notice	Other measuring ranges on request	

DIFFERENTIAL PRESSURE SWITCHES

PS	PG1	
Type	Art. No.	€
PS300	269971	27,65 €
PS500	269995	27,65 €
PS1500	255202	27,65 €
PS4500	273138	27,65 €

ACCESSORIES

PS	PG1	
Description	Art. No.	€
Metal duct connectors MKS40 (L=40mm) (1 piece), 2 pieces necessary per device	265138	3,75 €
Metal duct connectors MKS100 (L=100mm) (1 piece), 2 pieces necessary per device	302531	4,50 €

Differential Pressure Transmitter – DPT-R8 / DPT MODBUS «

Application

Differential pressure transmitter with 8 selectable measuring ranges and adjustable output (0-10V or 4-20mA) or Modbus output. For monitoring the differential pressure of air and other nonflammable and non-aggressive gases.

Possible applications: Monitoring for air filters, fans, industrial cooling air cycles as well as overheating protection, control of air and fire dampers.



DPTxxxx-R8-D



DPTxxxx-R8
DPTxxx-Modbus



DIFFERENTIAL PRESSURE TRANSMITTER

DPT-R8, DPT-MODBUS		PG1	
Type	Out	Art. No.	€
DPT2500-R8	4-20mA/0-10V	426572	151,47 €
DPT2500-R8-D	4-20mA/0-10V	426596	201,62 €
DPT7000-R8	4-20mA/0-10V	426619	151,47 €
DPT7000-R8-D	4-20mA/0-10V	426633	201,62 €
DPT2000-Modbus	Modbus	396660	202,94 €
DPT5000-Modbus	Modbus	396691	202,94 €

OPTION

DPT-R8		PG1
Description		€
Autom. zero point calibration		34,18 €

TYPES AVAILABLE	
Type (-D=Display)	Measuring ranges (adjustable at the device)
DPT2500-R8 DPT2500-R8-D	-100...+100Pa / 0...100Pa / 0...250Pa 0...500Pa / 0...1.000Pa / 0...1.500Pa 0...2.000Pa / 0...2.500Pa
DPT7000-R8 DPT7000-R8-D	0...1.000Pa / 0...1.500Pa / 0...2.000Pa 0...2.500Pa / 0...3.000Pa / 0...4.000Pa 0...5.000Pa / 0...7.000Pa
DPT2000-Modbus	0...100Pa / 0...250Pa / 0...500Pa 0...1.000Pa / 0...2.000Pa
DPT5000-Modbus	0...1.000Pa / 0...2.000Pa / 0...3.000Pa 0...5.000Pa

TECHNICAL DATA	
Output	4...20mA and 0-10V (adjustable at device), Modbus
Accuracy	DPT-R8: ±1,5% of measuring range, +6Pa at measuring range <250Pa DPT-Modbus: ±1,5% from respective highest measuring range
Max. working overpressure	30kPa (DPT2500-R8), 80kPa (DPT7000-R8), 50kPa (DPT-Modbus)
Operating temperature	-10°C...+50°C
Power supply	DPT-R8: 24V= (±10%) or 24V~ (±10%) DPT-Modbus: 24V= (±10%)
Connection	DPT-R8: 3-wire DPT-Modbus: 4-wire
Terminal clamp	Screwing terminal, max. 1,5mm ²
Enclosure	ABS, cover PC
Connecting tube	PVC, soft
Cable entry	M16
Protection	IP54
Dimensions (LxWH)	90mm x 71,5mm x 36mm
Standard accessory included	2 fixing screws 2 plastic duct connectors 2m PVC flexible tube
Options	Automatic, periodical zero point calibration for increased long-time stability

ACCESSORIES

DPT-R8, DPT-MODBUS		PG1
Description	Art. No.	€
Metal duct connectors MKS40 (L=40mm)	265138	3,75 €
Metal duct connectors MKS100 (L=100mm)	302531	4,50 €



DLM G1/4"



DLM 7/16" Schrader

PRESSURE TRANSMITTER G $\frac{1}{4}$ "

DLM	PG1		
Type	Out	Art. No.	€
DLM4/A	4-20mA	277020	93,62 €
DLM6/A	4-20mA	270960	93,62 €
DLM10/A	4-20mA	276627	93,62 €
DLM16/A	4-20mA	277037	93,62 €
DLM25/A	4-20mA	277044	93,62 €
DLM4/V	0-10V	276993	99,20 €
DLM6/V	0-10V	265409	99,20 €
DLM10/V	0-10V	265461	99,20 €
DLM16/V	0-10V	277006	99,20 €
DLM25/V	0-10V	277013	99,20 €

PRESSURE TRANSMITTER 7/16" SCHRADER

DLM	PG1		
Type	Out	Art. No.	€
DLM-0,5...9/A 7/16"	4-20mA	396059	99,47 €
DLMo...40/A 7/16"	4-20mA	396073	99,47 €

Application

Pressure transmitter for pressure detection in liquid mediums of the air-conditioning, heating and water technique. Suitable for plants with refrigerants.

TYPES AVAILABLE

Type	Measuring range	Output
DLM4/A	0... 4bar	4-20mA
DLM6/A	0... 6bar	4-20mA
DLM10/A	0...10bar	4-20mA
DLM16/A	0...16bar	4-20mA
DLM25/A	0...25bar	4-20mA
DLM4/V	0... 4bar	0-10V
DLM6/V	0... 6bar	0-10V
DLM10/V	0...10bar	0-10V
DLM16/V	0...16bar	0-10V
DLM25/V	0...25bar	0-10V
DLM-0,5...9/A 7/16"	-0,5...9bar	4-20mA
DLMo...40/A 7/16"	0...40bar	4-20mA

Other measuring ranges on request

TECHNICAL DATA

Accuracy	Typ. 0,7% in temperature range -20...+85°C
Overload range	double nominal pressure
Medium temperature	-40...+125°C
Ambient temperature	-40...+105°C
Power supply	4-20mA: 15-24V= ($\pm 10\%$) 0-10V: 15-24V= or 24V~ ($\pm 10\%$)
Pressure connection	G $\frac{1}{4}$ " or G $\frac{1}{2}$ ", 7/16" Schrader
Protection	IP65

PRESSURE TRANSMITTER G $\frac{1}{2}$ "

DLM	PG1		
Type	Out	Art. No.	€
DLM4/A	4-20mA	277242	99,47 €
DLM6/A	4-20mA	277228	99,47 €
DLM10/A	4-20mA	277211	99,47 €
DLM16/A	4-20mA	277204	99,47 €
DLM25/A	4-20mA	277198	99,47 €
DLM4/V	0-10V	277181	105,60 €
DLM6/V	0-10V	277174	105,60 €
DLM10/V	0-10V	277167	105,60 €
DLM16/V	0-10V	277150	105,60 €
DLM25/V	0-10V	277143	105,60 €

OPTIONS

DLM	PG1		
Description	Art. No.	€	
Adaptor G $\frac{1}{4}$ " to G $\frac{1}{2}$ "	277068	8,36 €	

Application

For differential pressure detection in liquid mediums of the air-conditioning, heating and water technique. Also suitable for light aggressive liquids.



TYPES AVAILABLE

Type	Measuring range	Output
DPL1/A	0...1,0bar	4-20mA
DPL2,5/A	0...2,5bar	4-20mA
DPL4/A	0...4,0bar	4-20mA
DPL6/A	0...6,0bar	4-20mA
DPL1/V	0...1,0bar	0-10V
DPL2,5/V	0...2,5bar	0-10V
DPL4/V	0...4,0bar	0-10V
DPL6/V	0...6,0bar	0-10V

TECHNICAL DATA

Accuracy	Typ. 1% in temperature range -5...+75°C
Medium temperature	-10...+80°C
Ambient temperature	-10...+50°C
Power supply	4-20mA: 15-24V= (±10%) 0-10V: 15-24V= or 24V~ (±10%)
Pressure connection	G 3/8"
Protection	IP54

DIFFERENTIAL PRESSURE TRANSMITTER

DPL	PG1		
Type	Out	Art. No.	€
DPL1/A	4-20mA	346597	288,39 €
DPL2,5/A	4-20mA	346696	288,39 €
DPL4/A	4-20mA	346702	288,39 €
DPL6/A	4-20mA	346719	288,39 €
DPL1/V	0-10V	346580	288,39 €
DPL2,5/V	0-10V	346665	288,39 €
DPL4/V	0-10V	346672	288,39 €
DPL6/V	0-10V	346689	288,39 €

ACCESSORIES

DPL	PG1		
Description	Art. No.	€	
Screw connection set 6mm brass (2 pcs.)	373401	12,50 €	
Screw connection set 6mm stainless steel (2 pcs.)	373388	53,19 €	
Screw connection set 8mm brass (2 pcs.)	373418	12,60 €	
Screw connection set 8mm stainless steel (2 pcs.)	373395	61,09 €	



Application

Electronic differential pressure switch with 4 adjustable measuring ranges (0-10V) and up to 2 relays outputs. For monitoring and indicating low pressures of air or non-flammable and non-aggressive gases. Possible applications: Monitoring of air filters, fans, industrial cooling air cycles as well as overheating protection, flows in air ducts.



TYPES AVAILABLE

Type	Measuring range (adjustable)
DPI2500	0...100Pa / 0...250Pa / 0...1.000Pa 0...2.500Pa with 1 relay output
DPI2500-2R	0...100Pa / 0...250Pa / 0...1.000Pa 0...2.500Pa, with 2 relays outputs

TECHNICAL DATA

Output	DPI2500: 0-10V, 1x relay (250V~ / 30V= / 6A) DPI2500-2R: 0-10V, 2x relays (250V~ / 30V= / 6A)
Accuracy	±1,5% from respective highest range
Max. overpressure	30kPa
Ambient temperature	-10°C...+50°C
Power supply	21-35V= (±10%) or 24V~ (±10%), 24V=/24V~ (±10%) (with autom. zero point calibration)
Terminal clamp	Screwing terminal, max. 1,5mm ²
Enclosure	ABS, cover PC
Connection tube	PVC, soft
Cable entry	M16 and M20
Protection	IP54
Dimensions (LxBxH)	90mm x 71,5mm x 36mm
Inklusive standard accessory	2 fixing screws 2 platic duct connectors 2m PVC-flexible tube
Optional	Automatic, periodical zero point calibration for improved long-time stability
Notice	Further ranges on request

ELECTRONIC DIFFERENTIAL PRESSURE SWITCH

DPI	Out	Art. No.	PG1	€
DPI2500	0-10V / 1x Relay	466844	215,00	€
DPI2500-2R	0-10V / 2x Relais	466868	225,00	€

OPTION

DPI	Description	PG1	€
	Automatic zero point calibration		34,18

ACCESSORIES

DPI	Description	Art. No.	PG1	€
	Metal duct connectors MKS40 (L=40mm)	265138		3,75
	Metal duct connectors MKS100 (L=100mm)	302531		4,50

Differential Pressure Gauge – DPG / DPG PS «



DPG1k



DPG600/PS600

Application

Differential pressure gauges for monitoring the differential pressure of air and other nonflammable and non-aggressive gases.
Possible applications: Monitoring of air filters and fans, monitoring of industrial air cycles and flows in air ducts.

TECHNICAL DATA – DPG

Display range	DPG60: 0... 60Pa DPG100: 0...100Pa DPG250: 0...250Pa DPG500: 0...500Pa DPG1k: 0... 1kPa
Accuracy (at 20°C)	DPG250/DPG500/DPG1k ≤±2% of measuring range DPG100 ≤±3% of measuring range DPG60 ≤±4% of measuring range
Operating temperature	-5°C...+60°C
Enclosure/Cover	ABS/PC
Connecting tube	PVC, soft
Display panel	Ø100mm
Standard accessory included	2 fixing screws 2 plastic duct connectors 2m PVC flexible tube
Notice	Other display ranges on request

TECHNICAL DATA – DPG PS

Display range	DPG200/PS200: 0... 200Pa DPG600/PS600: 0... 600Pa DPG1,5k/PS1500: 0...1500Pa
Differential gap	DPG200/PS200: 20... 200Pa DPG600/PS600: 40... 600Pa DPG1,5k/PS1500: 100...1500Pa
Accuracy (at 20°C)	≤±2% of measuring range
Operating temperature	-5°C...+60°C
Enclosure/Cover	ABS/PC (DPG and PS)
Connecting tube	PVC, soft
Protection	IP54
Display panel	Ø100mm
Standard accessory included	2 fixing screws 2 plastic duct connectors 2m PVC flexible tube incl. wall mounting plate

DIFFERENTIAL PRESSURE GAUGES

DPG	PG1	
Type	Art. No.	€
DPG60	384438	120,74 €
DPG100	384445	120,74 €
DPG250	255264	111,15 €
DPG500	255271	111,15 €
DPG1k	285025	111,15 €

DIFFERENTIAL PRESSURE GAUGE / SWITCH

DPG PS	PG1	
Type	Art. No.	€
DPG200/PS200	255233	142,27 €
DPG600/PS600	267205	142,27 €
DPG1,5k/PS1500	338066	142,27 €

ACCESSORIES

DPG / DPG PS	PG1	
Description	Art. No.	€
Metal duct connectors MKS40 (L=40mm)	265138	3,75 €
Metal duct connectors MKS100 (L=100mm)	302531	4,50 €

» MM / MM PS – Differential Pressure Inclined Tube Manometers

Application

Differential inclined tube manometers for monitoring of the differential pressure of air and other nonflammable and non-aggressive gases. Possible applications: Monitoring of air filters and fans, monitoring of industrial air cycles and flows in air ducts.



MM200600



MM200600/PS600

TECHNICAL DATA – MM

Display range	MM±50:	-50...50Pa
	MM100:	-10...100Pa
	MM±100:	-100...500Pa
	MM200600:	0...600Pa
	MM5001500:	0...1500Pa
Accuracy	MM±50:	1Pa
	MM100:	1Pa
	MM±100:	5Pa/25Pa
	MM200600:	5Pa/25Pa
	MM5001500:	10Pa/50Pa
Max. working overpressure	200kPa	
Operation temperature	-40°C...+60°C	
Enclosure/Cover	ABS/PMMA	
Connecting tube	PVC, soft	
Dimensions (LxBxH)	210mm x 140mm x 34mm	
Standard accessory included	2 fixing screws 2m PVC-flexible tube 30ml gauge fluid 2 indication stickers (red/green)	

TECHNICAL DATA – MM PS

Display range	MM200600/PS600:	0... 600Pa
	MM5001500/PS1500:	0...1500Pa
Differential gap	MM200600/PS600:	40... 600Pa
	MM5001500/PS1500:	100...1500Pa
Max. working overpressure	50kPa	
Operation temperature	-20°C...+60°C	
Enclosure/Cover	ABS/PMMA (MM)	
	ABS/PC (PS)	
Connecting tube	PVC, soft	
Protection	IP54	
Dimensions (LxBxH)	290mm x 140mm x 65mm	
Standard accessory included	2 fixing screws 2m PVC-flexible tube 30ml gauge fluid 2 indication stickers (red/green)	

DIFFERENTIAL PRESSURE MANOMETER

MM	PG4	
Type	Art. No.	€
MM±50	268912	43,01 €
MM100	284516	43,01 €
MM±100	384452	43,01 €
MM200600	255240	43,01 €
MM5001500	270908	90,38 €

DIFFERENTIAL PRESSURE MANOMETER/SWITCH

MM PS	PG4	
Type	Art. No.	€
MM200600/PS600	255257	108,42 €
MM5001500/PS1500	285889	152,04 €

Application

DPT Flow is an ideal device for monitoring and controlling the air flow and for measuring flow rate of centrifugal fans.

The flow rate measurement is based on differential pressure values measured directly from the fan. DPT Flow can be used to display the flow value on-site and to send the output value to a control system.



TYPES AVAILABLE

Type	Measuring ranges
DPT Flow-D-1000 (with Display)	0...1.000Pa
DPT Flow-D-5000 (with Display)	0...5.000Pa

TECHNICAL DATA

Supported fan manufacturers	Comferi, EBM-Pabst, Fläkt Woods, Gebhardt, Nicotra, Rosenberg, Ziehl-Abegg
Output	Volume flow: 0-10V Differential pressure: 0-10V
Accuracy	DPT Flow-1000/5000 ±5Pa and ±1,5% of display
Max. working overpressure	50kPa
Ambient temperature	-5°C...+50°C
Power supply	24V= (±10%) or 24V~ (±10%)
Terminal clamp	Screwing terminal, max. 1,5mm ²
Enclosure	ABS
Connecting tube	PVC, soft
Cable entry	M16
Protection	IP54
Dimensions (LxBxH)	90mm x 71,5mm x 36mm
Standard accessory included	2 fixing screws 2 plastic duct connectors 2m PVC flexible tube
Notice	Device has an automatical, periodical zero point calibration for increased long-time stability Other measuring ranges on request

FLOW METER

DPT FLOW	PG1	
Type	Art. No.	€
DPT Flow-D-1000	370509	258,49 €
DPT Flow-D-5000	377546	258,49 €

ACCESSORIES

DPT FLOW	PG1	
Description	Art. No.	€
Metal duct connectors MKS40 (L=40mm)	265138	3,75 €
Metal duct connectors MKS100 (L=100mm)	302531	4,50 €

» AVT – Air Velocity Transmitter



Application

Air velocity transmitter for measuring and monitoring of air velocities in supply air/exhaust air plants, at ventilators, regulation flaps and electro damper registers.

TYPES AVAILABLE

Type	Range (selectable on device)	Display	Relay
AVT	0...2m/s, 0...10m/s, 0...20m/s		
AVT-D	0...2m/s, 0...10m/s, 0...20m/s	X	
AVT-D-R	0...2m/s, 0...10m/s, 0...20m/s	X	X

TECHNICAL DATA

Output 1	4...20mA and 0-10V (selectable on device), 0...2m/s, 0...10m/s, 0...20m/s (selectable on device)
Output 2	4...20mA and 0-10V (selectable on device), 0...50°C
Output optionally	Relay (floating), 230V AC, 6A/30V DC, 6A
Working temperature	-20°C...+70°C
Enclosure	ABS, cover PC
Terminal	Screwing terminal, max. 1,5mm ²
Cable entry	2x M16
Sensor pocket	Stainless steel, Mat. 1.4571, L=210mm
Protection	IP54
Dimensions (LxBxH)	90mm x 71,5mm x 36mm
Notice	Incl. mounting flange

AIR VELOCITY TRANSMITTER

AVT	PG1		
Type	Out	Art. No.	€
AVT	2x 4-20mA/0-10V	430005	138,29 €
AVT-D	2x 4-20mA/0-10V	430036	177,50 €
AVT-D-R	2x 4-20mA/0-10V, Relay	430067	196,08 €