Liquids and gases

Smart SN

Smart SN

pressure transmitters

The robust, microprocessor-supported electronic pressure sensors in the Smart SN series from Honeywell FEMA measure relative pressures in ranges from -1 ... +1 bar and 0-40 bar. The Smart SN series transmitters are especially well suited to the measurement and monitoring of system pressures. The graphic display can be rotated in 90° steps and provides reliable readings for the current local pressure and output signal. A generously proportioned keypad ensures the Smart SN transmitter version is simple to configure. The equipment can be installed directly in the pressure line using the G1/2" external thread.

Smart SN ➔ p. 88–89

Liquids and gases

Smart DIFF

Smart SN DIFF

differential pressure transmitters

The microprocessor-supported electronic differential pressure sensors in the Smart DCM DIFF and Smart SN DIFF series from Honeywell FEMA measure differential pressures and relative pressures in 7 pressure ranges from 0-250 mbar to 0-25 bar. Electronic differential pressure switches and differential pressure transmitters are highly suitable for a wide variety of applications, including the more accurate measurement, monitoring and control of differential pressures. The principal applications are in pump and filter monitoring.

Smart SN DIFF ➔ p. 90–91

Liquids and gases

Smart Press PST

Smart Press PST/PST-R

Electronic pressure switches/transmitters

Honeywell Fema PST and PST…R series pressure switches/transmitters are highly versatile, can be adjusted and configured in two modes and are used for the fine adjustment and monitoring of system pressures in plant engineering, fluidics, process engineering and pneumatics, and for the monitoring and control of pumps and compressors. They are all fitted with a WARNING system and have a standardized 20 mA warning output. The equipment is therefore also used in manufacturing lines in the automotive industry and in many areas of mechanical and special-purpose engineering. With an overall accuracy of 0.5% of full scale, these pressure switches/transmitters are also suitable for measurement monitoring in many laboratory applications.

➔ p.78–83

Liquids and gases

PTE

PTE

All-Metal Pressure sensor

PTE Series pressure sensors combine Application Specific Integrated Circuit (ASIC) technology with a media isolated, metal diaphragm design. This digitally compensated sensor featuring thick-film technology offers value and performance, making it the ideal pressure sensing solution for demanding applications. Fully temperature-compensated, calibrated, and amplified, the PTE is available in 0…550 bar pressure ranges. They are suitable for the use in compressors, hydraulic and industrial applications.

➔ p.92–93

Ventilation and air-conditioning systems

DPTE

DPTE und DPTAQ

Differential pressure transmitter, piezo-resistive

The proven differential pressure transmitter series DPTM have been thoroughly revised. In particular, the electrical characteristic were optimized to the various sensor interfaces of heating controllers. Thus now, without exception and without converter all sensor inputs of the various Honeywell controller families with a 0-10V or 4-20mA signal can be controlled. New products are added:

· DPTAQ (D) with 8 measuring ranges and automatic re-zeroing
· DPTA25 (D) with the smallest measuring range 0…25 Pa and automatic re-zeroing

Differential pressure transmitters are suitable for the monitoring of gaseous, non-aggressive and non-combustible media. Possible applications are:

· Air conditioning and ventilation (HVAC)
· Environmental protection
· Monitoring of ventilation flaps
· Pressure monitoring in clean rooms
· Building automation
· Filter and blower monitoring
· Level control (air bubbling syst)

➔ p.94–95

Without display

With display and control panel

Smart SN

Microprocessor-supported pressure transducers

The robust, microprocessor-supported electronic pressure transducers in the Smart SN series from Honeywell FEMA measure relative pressures in ranges from -1 …+1 bar and 0-40 bar. They are particularly suitable for use as pressure sensors in the fields of mechanical engineering, supply engineering, environmental technology and HVAC. The equipment can be installed directly in the pressure line using the G1/2" external thread. Entering switching points is easy with the generously proportioned keyboard and graphic display. 2- and 3-wire versions are available, as are versions for use with alternating current.

*** All 2-wire versions according IEC 61508 (SIL2)**

Technical data

Measurement ranges	
relative	1… + 40 bar
Ambient temperature	
Versions without HMI	–20…+80 °C
Versions with HMI	–20…+70 °C
Storage temperature	
Versions without HMI	–40…+80 °C
Versions with HMI	–30…+80 °C
Medium temperature	–20…+70 °C
Relative atmospheric humidity	0…95 % non-condensing
Overall accuracy	0.5% of end value
Weight	
Versions without HMI	300 grams
Versions with HMI	350 grams
Parts in contact with medium	Stainless steel (1.4571)
Process connection	
Pressure gauge connection	G1/2" external thread
Electrical connection	
Plug connection	5-pin M12x1
Protection class	II as per EN 61010
Versions without HMI	IP67
Versions with HMI	IP65
Power supply	
2-wire	18...35 Vdc
3-wire	24 Vac/dc +10/-20
EMC	according to EN 61326
Mechanical stability	
Vibration	20g as per IEC 68-2-6 (up to 2000 Hz)
Mechanical shock	100g as per IEC 68-2-27
Transmitter output (analog)	
Current	0/4…20 mA, max. 500 Ohm
Voltage	0/2...10 V, min. 15 kOhm configurable (also invertible)
Housing and cover	PA66 GF25

Functions

· Microprocessor-supported 2- and 3-wire pressure sensors
· Scalable up to 50% of the nominal pressure range

Configuration of the analog output:

· 0-10 V, 2-10 V, 0-20 mA and 4-20 mA
· Select pressure unit: bar, Pa or psi

Smart SN display functions

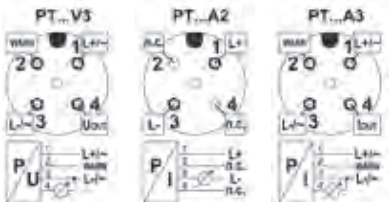
· Current pressure display
· Current analog output display (voltage or power)
· WARNING - Display with visible error codes

Other features:

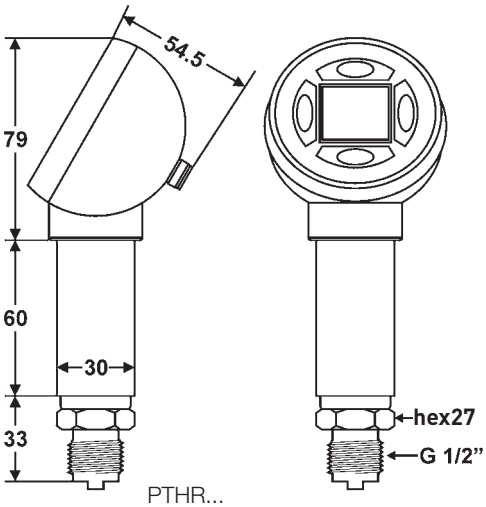
· Restore function
· Warning function for sensor fault, overload and overheating
· Manual zero adjustment
· 4-digit code enables locking

Electrical connection:

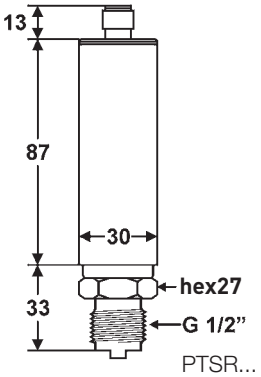
· 5-pin M12x1 plug connector, Form A
· M12x1 connector included



Dimensioned drawings (mm)



PTHR...

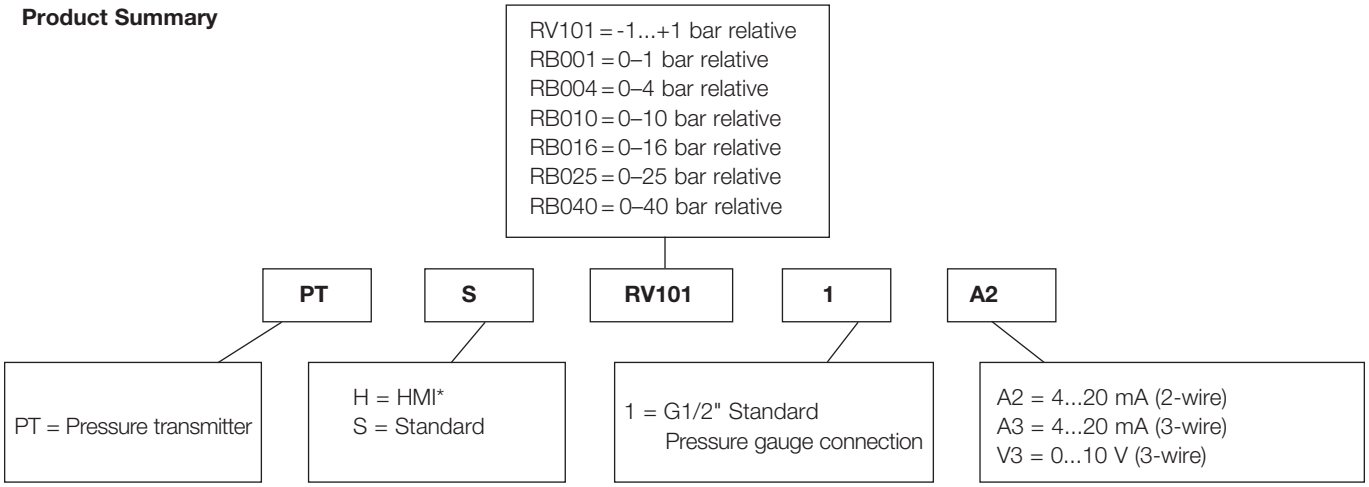


PTSR...

CE

Protection Class:
IP 67 / IP 65

Product Summary



* HMI = **H**uman **M**achine **I**nterface = Digital display + Data input via buttons

2-wire

Type	Pressure in bar	Max. permissible pressure (bar)	Type
PTSRV1011A2	-1...+1	6	**PTHRV1011A2**
PTSRB0011A2	0...1	3	**PTHRB0011A2**
PTSRB0041A2	0...4	12	**PTHRB0041A2**
PTSRB0101A2	0...10	30	**PTHRB0101A2**
PTSRB0161A2	0...16	48	**PTHRB0161A2**
PTSRB0251A2	0...25	50	**PTHRB0251A2**
PTSRB0401A2	0...40	80	**PTHRB0401A2**

Safety parameters (IEC61508-2) Type	DC	PDF (T_{proof} = 1 years)	PDF (T_{proof} = 5 years)	PDF (T_{proof} = 10 years)	SIL-Level
PTSR.....A2	0%	1,32E-04	1,6,61E-04	1,32E-03	**SIL2**
PTHR.....A2	0%	1,32E-04	1,6,61E-04	1,32E-03	**SIL2**

3-wire

Type	Pressure in bar	Max. permissible pressure (bar)	Type
PTSRV1011V3	-1...+1	6	**PTHRV1011V3**
PTSRB0011V3	0...1	3	**PTHRB0011V3**
PTSRB0041V3	0...4	12	**PTHRB0041V3**
PTSRB0101V3	0...10	30	**PTHRB0101V3**
PTSRB0161V3	0...16	48	**PTHRB0161V3**
PTSRB0251V3	0...25	50	**PTHRB0251V3**
PTSRB0401V3	0...40	80	**PTHRB0401V3**
PTSRV1011A3	-1...+1	6	
PTSRB0011A3	0...1	3	
PTSRB0041A3	0...4	12	
PTSRB0101A3	0...10	30	
PTSRB0161A3	0...16	48	
PTSRB0251A3	0...25	50	
PTSRB0401A3	0...40	80	

Configurations Tool for Windows XP and Win7 Type	Function
CFT1	Software and data interface for easy adjustment of switching points, switch on/off delay, for example; as well as checking for excess pressure/temperature, see also page 155

CE

Protection Class:
IP 67 / IP 65

With display and control panel

Smart SN DIFF

Microprocessor-supported differential pressure transducers

The microprocessor-supported differential pressure transmitters in the Smart SN DIFF series from Honeywell FEMA measure differential pressures and relative pressures in 6 pressure ranges from 0-100 mbar to 0-20 bar.

Differential pressure transmitters are highly suitable for a wide variety of applications, including the accurate measurement, monitoring and control of differential pressures. The principal applications are in pump and filter monitoring.

Technical data

Measuring ranges	0-250 mbar
relative	to 0-25 bar
Ambient temperature	
Versions without HMI	–20…+80°C
Versions with HMI	–20…+70°C
Storage temperature	
Versions without HMI	–40…+100°C
Versions with HMI	–30…+80°C
Medium temperature	–20…+70°C
Relative atmospheric humidity	0…95% non-condensing
Accuracy	1%, except PTHDM 1002 ...
Weight	
Versions without HMI	350 grams
Versions with HMI	450 grams
Parts in contact with medium	Stainless steel 1.4404 (AISI 316L)
Process connection	2x G1/4" internal thread
Electrical connection	5-pin M12x1 plug, "A"
Protection class	III to EN 61140 (SELV)
Versions without HMI	IP67 to EN 60529-2
Versions with HMI	IP65 to EN 60529-2
EMC	according to EN 61326
Climate class	
Indoor	4K4H to EN 60721-3-4
Outdoor	3K8H to EN 60721-3-3
Power supply	
2-wire	18...35 Vdc
3-wire	24 Vdc ± 20 %, max. 50 mA
EMC	according to EN 61326
Mechanical stability	
Vibration	20g as per IEC 68-2-6 (up to 2000 Hz)
Mechanical shock	100g as per IEC 68-2-27

Functions

· Microprocessor-supported 2- and 3-wire pressure sensors
· Scalable up to 50% of the nominal pressure range

Configuration of the analog output:

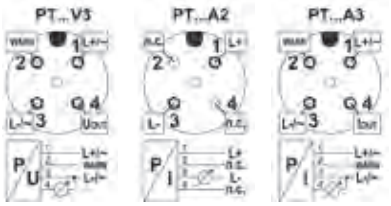
· 0-10 V, 2-10 V, 0-20 mA, 4-20 mA
· Select pressure unit: bar, Pascal or PSI

Smart SN display functions

· Displays current differential pressure in bar, Pa, psi and %
· Current analog output display (voltage or power)
· WARNING - Display with visible error codes

Electrical connection:

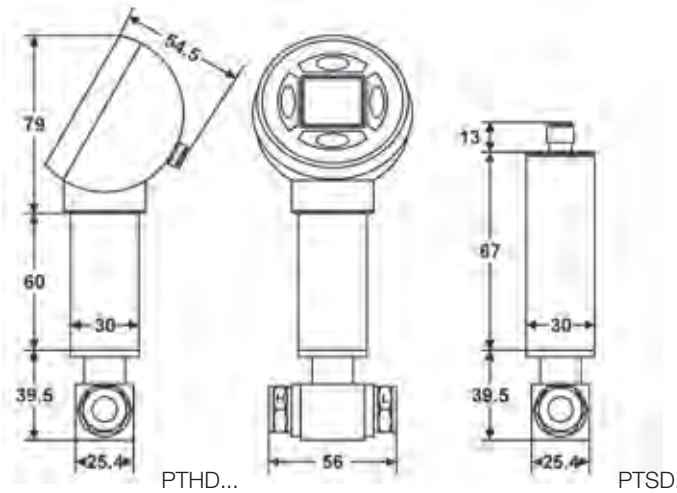
· 5-pin M12x1 plug connector, Form A
· M12x1 connector included



Other:

· Restore function
· Warning function for sensor fault, overload and overheating
· Manual zero adjustment
· 4-digit code enables locking

Dimensioned drawings (mm)

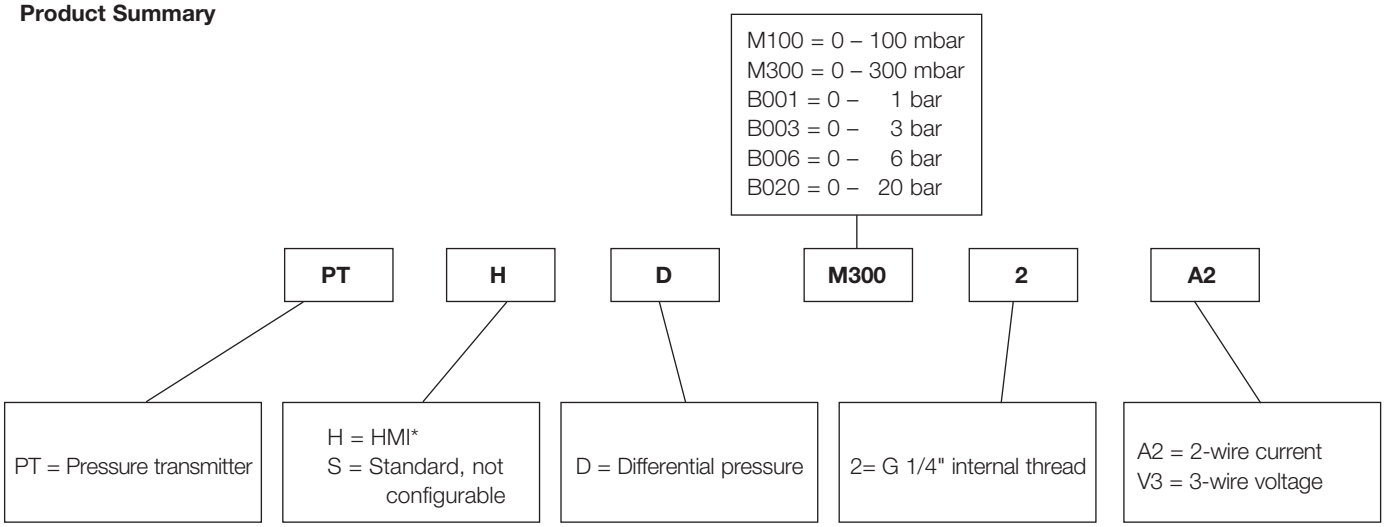


PTHD... PTSD...

CE

Protection Class:
IP 67 / IP 65

Product Summary



* HMI = **H**uman **M**achine **I**nterface = Digital display + Data input via buttons

2-wire

Type	measurement range (bar)	Max. permissible Differential pressure (bar)	Bursting pressure (bar)	Max. permissible system pressure (bar)	Overrange pressure rev. pressure)
PTHDM1002A2	0-0,100	0,9	1,2	70	0,9
PTHDM3002A2	0-0,300	0,9	1,2	70	0,9
PTHDB0012A2	0-1	3	4	70	3,0
PTHDB0032A2	0-3	9	12	70	7,0
PTHDB0062A2	0-6	21	28	70	7,0
PTHDB0202A2	0-20	60	70	70	7,0

3-wire

Type	measurement range (bar)	Max. perm. Differential pressure (bar)	Bursting pressure (bar)	Max. perm. system pressure	Overrange pressure rev. pressure)	Type
PTSDM1002V3**	0–0,100	0,9	1,2	70	0,9	**PTHDM1002V3**
PTSDM3002V3**	0–0,300	0,9	1,2	70	0,9	**PTHDM3002V3**
PTSDB0012V3**	0–1	3	4	70	3,0	**PTHDB0012V3**
PTSDB0032V3**	0–3	9	12	70	7,0	**PTHDB0032V3**
PTSDB0062V3**	0–6	21	28	70	7,0	**PTHDB0062V3**
PTSDB0202V3**	0–20	60	70	70	7,0	**PTHDB0202V3**

** Transmitter without HMI (PTSD…) only are available with voltage output

Measuring range:
Calibrated measuring range of device. The switching and resetting points can be set within this pressure range. This pressure range is specified in the product ordering code. PTHD**B001**2. Here **B001** means pressure range 0-1 bar.

Maximum permissible differential pressure:
Maximum pressure difference that may be connected between the two connections "H" and "L" without knocking the sensor element out of adjustment or causing it long-term damage.

Bursting pressure
Above the stated bursting pressures the sensors are subject to mechanical failure. This removes the security of separation between the "H" and "L" connections and the sensor housing may even rupture.

Maximum permissible system pressure:
System pressure that may be allowed to bear on both pressure connections without knocking the sensor element out of adjustment or causing it long-term damage. In addition the pressure may be allowed to reach the maximum permissible differential pressure on the pressure side "H" without putting the sensor out of adjustment or causing long-term damage to it.

Attention:
According to intended use, the lower pressure needs to be connected to the "L" marked port and the higher pressure to "H" marked port. Interchange of both ports (high pressure at "L" port) may lead to damage of the differential pressure measurement cell.

PTE

PTE

All-Metal Pressure Sensor

PTE Series pressure sensors combine Application Specific Integrated Circuit (ASIC) technology with a media isolated, metal diaphragm design. This digitally compensated sensor featuring thick-film technology offers value and performance, making it the ideal pressure sensing solution for demanding applications.

Fully temperature-compensated, calibrated, and amplified, the PTE is available in 0...550 bar pressure ranges.
The principal application are in Compressors, Refrigeration and HVAC, General industrial, General hydraulics, Multiple transportation applications including braking and alternate fuels, Medical.

Delivery times on inquiry!

Technische Daten

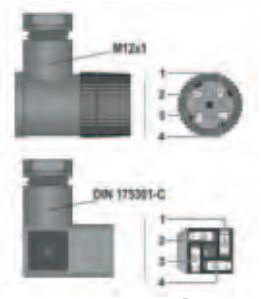
Messuring range	0 … +550 bar
Temperature	
- Process	-40…+125 °C
Total Accuracy	
p < 6 bar	+/- 0,5% of FFS
p > 6 bar	+/- 0,25% of FFS
Gewicht (ohne Stecker)	57 grams (G1/4") 65 grams (G1/2")
Parts in contact with medium	
Sensor housing	Stainless steel 304L
Membrane	Haynes 214 alloy
Housing	Plastic – Amodel AS-4133 HS – PPA
Process connection	G1/4", O-Ring (NBR), G1/2"
Electrical connection	M12 x 1 DIN 175301-C
Protection class	IP65
Power supply	10...30 VDC (2-wire)
Output	4...20mA
EMC	IEC61000-2:2008 IEC61000-3:2006 IEC61000-4:2004 IEC61000-6:2006 CISPR 11:2009
Mechanical stability	
Vibration	20 g
Shock	100 g
Reaction time	< 2 ms
Approvals	CE
Plug M12 4-pin	max. ambient temperature -40…+85°C
Plug DIN 175301-C	max. ambient temperature -20…+85°C

Electrical connection

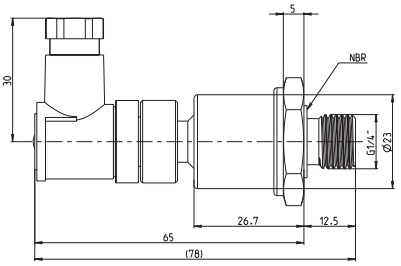
4-pin plug M12 x 1 or
plug according DIN 175301, Form C

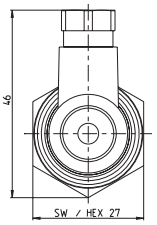
Pin

1 + Power supply and signal
2 GND power supply and signal
3 N/C
4 N/C

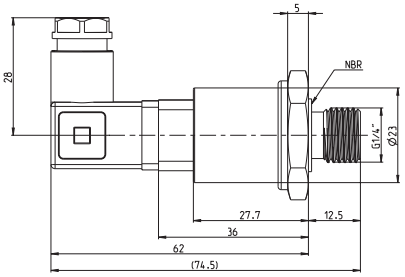


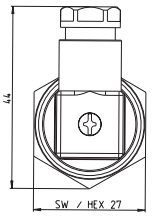
Dimensioned drawings (mm)



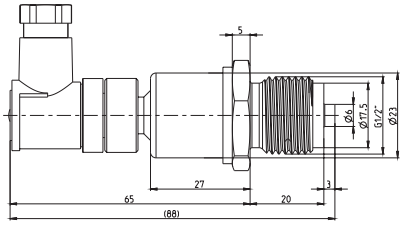


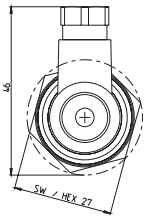
PTE...BGD14B



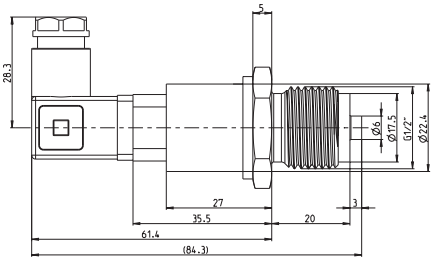


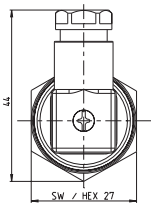
PTE...BGG14B





PTE...BGD23B





PTE...BGG23B

FEMA by Honeywell

CE

Protection Class:
IP 65

Typenübersicht

PTE _ _ _ _ _ _

SERIE

MEASURING range
006 100
010 160
016 250
025 350
040 550
060

UNIT
B = Bar

MEASUREMENT TYPE
G = Gage (bar)

ELECTRICAL TERMINATION
D = M12 x 1
G = DIN 175301-C

PRESSURE CONNECTION
14 = G 1/4"
23 = G 1/2"

OUTPUT SIGNAL
B = 4...20 mA 2-wire

Type	Pressure (bar)	Max. permissible pressure (bar)	Burst pressure (bar)	Process connection	Electrical connection
PTE006BGD14B	0...6	18	60	G 1/4"	M12 x 1
PTE010BGD14B	0...10	30	100	G 1/4"	M12 x 1
PTE016BGD14B	0...16	48	160	G 1/4"	M12 x 1
PTE025BGD14B	0...25	75	250	G 1/4"	M12 x 1
PTE040BGD14B	0...40	80	400	G 1/4"	M12 x 1
PTE060BGD14B	0...60	120	600	G 1/4"	M12 x 1
PTE100BGD14B	0...100	200	1000	G 1/4"	M12 x 1
PTE160BGD14B	0...160	320	1600	G 1/4"	M12 x 1
PTE250BGD14B	0...250	500	2068	G 1/4"	M12 x 1
PTE350BGD14B	0...350	700	2068	G 1/4"	M12 x 1
PTE550BGD14B	0...550	825	2068	G 1/4"	M12 x 1
PTE006BGG14B	0...6	18	60	G 1/4"	DIN 175301-C
PTE010BGG14B	0...10	30	100	G 1/4"	DIN 175301-C
PTE016BGG14B	0...16	48	160	G 1/4"	DIN 175301-C
PTE025BGG14B	0...25	75	250	G 1/4"	DIN 175301-C
PTE040BGG14B	0...40	80	400	G 1/4"	DIN 175301-C
PTE060BGG14B	0...60	120	600	G 1/4"	DIN 175301-C
PTE100BGG14B	0...100	200	1000	G 1/4"	DIN 175301-C
PTE160BGG14B	0...160	320	1600	G 1/4"	DIN 175301-C
PTE250BGG14B	0...250	500	2068	G 1/4"	DIN 175301-C
PTE350BGG14B	0...350	700	2068	G 1/4"	DIN 175301-C
PTE550BGG14B	0...550	825	2068	G 1/4"	DIN 175301-C
PTE006BGD23B	0...6	18	60	G 1/2"	M12 x 1
PTE010BGD23B	0...10	30	100	G 1/2"	M12 x 1
PTE016BGD23B	0...16	48	160	G 1/2"	M12 x 1
PTE025BGD23B	0...25	75	250	G 1/2"	M12 x 1
PTE040BGD23B	0...40	80	400	G 1/2"	M12 x 1
PTE060BGD23B	0...60	120	600	G 1/2"	M12 x 1
PTE100BGD23B	0...100	200	1000	G 1/2"	M12 x 1
PTE160BGD23B	0...160	320	1600	G 1/2"	M12 x 1
PTE250BGD23B	0...250	500	2068	G 1/2"	M12 x 1
PTE350BGD23B	0...350	700	2068	G 1/2"	M12 x 1
PTE550BGD23B	0...550	825	2068	G 1/2"	M12 x 1
PTE006BGG23B	0...6	18	60	G 1/2"	DIN 175301-C
PTE010BGG23B	0...10	30	100	G 1/2"	DIN 175301-C
PTE016BGG23B	0...16	48	160	G 1/2"	DIN 175301-C
PTE025BGG23B	0...25	75	250	G 1/2"	DIN 175301-C
PTE040BGG23B	0...40	80	400	G 1/2"	DIN 175301-C
PTE060BGG23B	0...60	120	600	G 1/2"	DIN 175301-C
PTE100BGG23B	0...100	200	1000	G 1/2"	DIN 175301-C
PTE160BGG23B	0...160	320	1600	G 1/2"	DIN 175301-C
PTE250BGG23B	0...250	500	2068	G 1/2"	DIN 175301-C
PTE350BGG23B	0...350	700	2068	G 1/2"	DIN 175301-C
PTE550BGG23B	0...550	825	2068	G 1/2"	DIN 175301-C

DPTE1000

DPTE (D)

Differential pressure transmitters, piezoresistive, for gaseous, non-aggressive media

DPTE series differential pressure transmitters are used to monitor gaseous, non-aggressive media.

Possible applications include:

- Air-conditioning and ventilation systems
- Building automation
- Environmental protection
- Fan and ventilation control
- Valve and shutter control
- Filter and fan monitoring

Technical data

Pressure media	Air, and non-combustible and non-aggressive gases.
Pressure connection	Plastic connection piece with 6 mm external diameter for measuring hose with 5 mm internal diameter. Connector P 1 for higher pressure, P 2 for lower pressure.
Cable entry / electrical connection	M 16 x 1.5, screw terminals for wires and leads with conductor cross-section up to 5–10 mm².
Degree of protection according to DIN 40050	IP 54 with cover, IP 00 without cover
Mounting	Any mounting position possible, with screws supplied
Materials	Transmitter housing and pressure connection P2 made of ABS, light grey. Fastening element with pressure connection P1 made of POM, white.
Long-term stability in % FS/year	-50 Pa - 1000 Pa ≤ 2.5; 1000/2500 Pa ≤ 1.5
Repetition accuracy	< ± 0.2% of final value
Linearity and switching differetial factor	< ± 1% of end value
Response time	switchable 100 ms/1sec
Medium and ambient temperature	–10°C to +70°C
Permitted air humidity	0–95% non-condensing (2-conductor DC only!)
Operating voltage	18…30 V AC, 16–32 V DC (2-conductor DC only)
Max. current consumption	30 mA for AC, 20 mA for DC
Power consumption	Max. 1 W
Output signal	0–10 V, short-circuit-proof to ground 4–20 mA, short-circuit-proof ≤ 30 mA
Housing dimensions and weight	Diameter 85 mm x 58 mm, 130 g
Standards and conformity	EN 60770, EN 61326
Supplied accessories:	2 m silicone hose, 2 connection pieces with fastening screws, 2 self-tapping screws for fastening the housing

Type	Operating range extended by jumpers in Pa	Default operating range in Pa
Differential pressure transmitter, 3-conductor		
without digital display, output signal 0-10 V und 4-20 mA		
DPTE50S	not possible	–50/+50
DPTE100S	not possible	–100/+100
DPTE500S	not possible	–500/+500
DPTW1000S	not possible	–1000/+1000
DPTE100	0–100	0–250
DPTE250	0–250	0–500
DPTE500	0–500	0–1000
DPTE1000	0–1000	0–2500
DPTE5000	0–5000	0–10000
with digital display, output signal 0-10 V und 4-20 mA		
DPTE50SD	not possible	-50/+50
DPTE100SD	not possible	-100/+100
DPTE500SD	not possible	-500/+500
DPTE1100SD	not possible	-1000/+1000
DPTE100D	0–250	0–100
DPTE250D	0–500	0–250
DPTE500D	0–1000	0–500
DPTE1000D	0–2500	0–1000
DPTE5000D	0–10000	0–5000
Differential pressure transmitter, 2-conductor		
without digital display, output signal 4-20 mA		
DPTE52S	not possible	–50/+50
DPTE102S	not possible	–100/+100
DPTE102	0–250	0–100
DPTE502	0–1000	0–500
DPTE1002	0–2500	0–1000
DPTE5002	0–10000	0–5000

NEW

DPTA25

DPTA (D), DPTAQ (D)

Differential pressure transmitters, piezoresistive, for gaseous, non-aggressive media

DPTA series differential pressure transmitters are used to monitor gaseous, non-aggressive media.

Possible applications include:

- Air-conditioning and ventilation systems
- Building automation
- Environmental protection
- Fan and ventilation control
- Valve and shutter control
- Filter and fan monitoring

Technical data

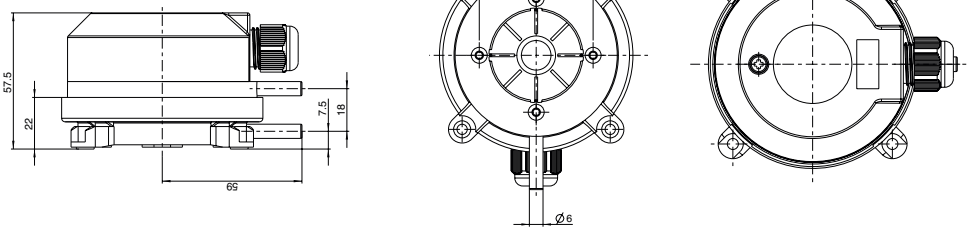
Pressure media	Air, and non-combustible and non-aggressive gases.
Pressure connection	Plastic connection piece with 6 mm external diameter for measuring hose with 5 mm internal diameter. Connector P 1 for higher pressure, P 2 for lower pressure.
Cable entry / electrical connection	M 16 x 1.5, screw terminals for wires and leads with conductor cross-section up to 5–10 mm².
Degree of protection according to DIN 40050	IP 54 with cover, IP 00 without cover
Mounting	Any mounting position possible, with screws supplied
Materials	Transmitter housing and pressure connection P2 made of ABS, light grey. Fastening element with pressure connection P1 made of POM, white.
Repetition accuracy	< ± 0.2% of final value
Linearity and switching differetial factor	< ± 1% of end value
Response time	switchable 100 ms/1sec
Medium and ambient temperature	–10°C to +70°C
Permitted air humidity	0–95% non-condensing (2-conductor DC only!)
Operating voltage	18…30 V AC, 16–32 V DC (2-conductor DC only)
Max. current consumption	30 mA for AC, 20 mA for DC
Power consumption	Max. 1 W
Output signal	0–10 V, short-circuit-proof to ground 4–20 mA, short-circuit-proof ≤ 30 mA
Housing dimensions and weight	Diameter 85 mm x 58 mm, 130 g
Standards and conformity	EN 60770, EN 61326
Supplied accessories:	2 m silicone hose, 2 connection pieces with fastening screws, 2 self-tapping screws for fastening the housing

Type	Selectable pressure range by rotary switch Pa
8-range differential pressure transmitter with automatic re-zeroing 3-wire version	
without digital display, output signal 0-10 V and 4-20 mA	
DPTAQ8	-50/+50, -100/+100, /-250/+250, -500/+500, -1000/+1000, 0–100, 0–250, 0–500, 0–1000
with digital display, output signal 0-10 V and 4-20 mA	
DPTAQ8D	-50/+50, -100/+100, /-250/+250, -500/+500, -1000/+1000, 0–100, 0–250, 0–500, 0–1000

Type	Default operating range in Pa	Operating range extended by jumpers in Pa
Differential pressure transmitter with automatic zeroing 3-wire version		
without digital display, output signal 0-10 V and 4-20 mA		
DPTA25S	–25/+25	not possible
DPTA25	0–25	0–50
Differential pressure transmitter with automatic zeroing 3-wire version		
with digital display, output signal 0-10 V and 4-20 mA		
DPTA25SD	–25/+25	not possible
DPTA25D	0–25	0–50

Typeseries DPTA (D), DPTAQ (D) and DPTE

Dimensioned drawings (mm)



FEMA by Honeywell

CE

Protection Class: IP 54

Specifications

PST...
Electronic pressure switch/transmitter
with 5-pin plug connection to DIN
IEC 60947-5-2, supply voltage: 14…36 VDC
Nominal pressure range …–… mbar/bar,
output signal: 4–20 mA and 0–10 V, selectable and invertible

DPTA...
Differential pressure transmitter for gaseous, non-aggressive media
Output signal 0 ... 10 V, short-circuit proof against ground,
4 ... 20 mA, short-circuit proof <30 mA,
pressure range: 0 … 25 or 0 ... 50 Pa
with automatic re-zeroing

DPTAQ8...
8-range differential pressure transmitter for gaseous non-aggressive media
Output signal 0 ... 10 V, short-circuit proof against ground,
4 ... 20 mA, short-circuit proof <30 mA,
8 pressure ranges, selectable by rotary switch,
with automatic re-zeroing

DPTE...
Differential pressure transmitter for gaseous non-aggressive media
Output signal 0 ... 10 V, short-circuit proof against ground,
4 ... 20 mA, short-circuit proof <30 mA,
Pressure range: ..... Pa

PTE...
Pressure transmitter for measurement of relative pressures
in pressure ranges of 0…6 bar to 0…550 bar,
2-wire, power supply 10-30 VDC,
Output signal 4 … 20 mA

CTF1
Configuration tool for the parameterisation of the electronic pressure switches and transmitters, series PTH, PTS, PSH and PSS.

PTH, PTS...
Electronic relative pressure transmitter
for the working ranges -1…+1 bar and 0-40 bar.

PTHD, PTSD...
Electronic differential pressure transmitter
Smart SN DIFF for measuring the differential- and relative-pressure pitches from 0-100 mbar till 0-20 bar.