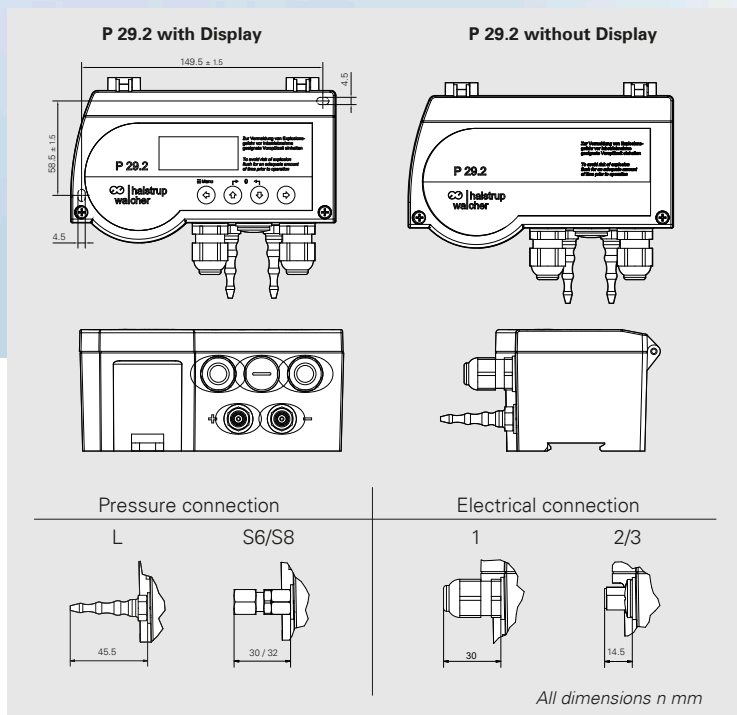




Order-code	A	B	C	D	E	F	G	H	I	J
P29.2	-	-	-	-	-	-	-	-	-	-

Output signal ⁴⁾ (linear/root-extracted)	A
0..10 V ($R_L \geq 2 \text{ k}\Omega$)	1
0..20 mA ($R_L \leq 500 \Omega$)	0
4..20 mA ($R_L \leq 500 \Omega$)	4
2..10 V ($R_L \geq 2 \text{ k}\Omega$)	2

⁴⁾ output signals can be configured freely

Measurement range	B
Measurement range e.g. 0..250 Pa, 0..100 mmHg (etc.)	

Measurement accuracy	C
$\pm 0.2 \%$ FS	2
$\pm 0.5 \%$ FS	5

Switching output	D
Potential-free semiconductor switches (2x NO contact)	1

Additional feature	E
None	A

Pressure connection	F
laboratory tube tail DIN12898	L
Compression ring fitting 6 mm	S6
Compression ring fitting 8 mm	S8

Power supply	G
24 VAC/DC $\pm 10 \%$ 50/60 Hz	1
24 VAC/DC $\pm 10 \%$ 50/60 Hz (with galvanic separation)	2

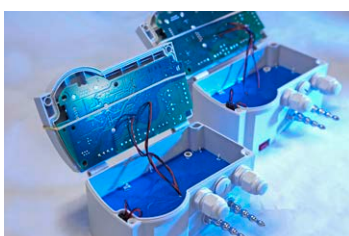
Electrical connection	H
Cable glands	1
M12 plug, analog output / ext. zeroing (4-pin, A-coded)	2
M12 plug, analog output / Switching output (4-pin, A-coded)	3

Display	I
None	0
LCD and keyboard	LC

23.01 Pa	31.15 Pa	31.15 Pa	13.86 Pa
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Calibration certificate	J
None	0
Factory calibration	I
Calibration according to DKD-R 6-1	D

Can be preset on request:
Time constant, zeroing interval,
switching off cyclical zeroing,
display language



Product description

- » High-precision differential pressure transducer for natural gas
- » Precise measuring ranges from 250 Pa uni- and bidirectional
- » For pressure and volume flow measurement
- » No zero point drift thanks to automatic zero point adjustment
- » Safe separation of ignition source and gas mixture through design and technical measures (not for Ex applications)
- » Simple commissioning and variable installation (top-hat rail and wall mounting)
- » Several switching and analog outputs as standard
- » Extensive configuration options using free parameterization software via internal USB-C interface

Optional

- » Display + keyboard for local configuration
- » M12 plug - pre-assembled electrical connection for even faster commissioning
- » Calibration certificate for complete documentation for the quality process

Measurement ranges others available upon request	250/500 Pa 1/2.5/5/10 kPa freely scalable from 10..100 % within a measurement range
Measurement accuracy ¹⁾	$\pm 0.2 \%$ FS measurement range $\leq 50 \text{ kPa}$ or $\pm 0.5 \%$ FS
Temperature coefficient span	max. 0.03 %/K
Temperature coefficient zero point	$\pm 0 \%$ /K (cyclical/manual zero-point correction)
Overload capacity	at least 200 times, but a maximum of 100 kPa
Medium	air, all non-aggressive gases and natural gas
Max. system pressure	100 kPa for all measurement ranges
Step response time (T63) (Time constant)	25 ms .. 60 s (adjustable)
Rated temperature range	10..50 °C
Storage temperature	-10..70 °C
Power consumption ²⁾	DC: max. 4 W AC: max. 8 VA
Weight	approx. 750 g
Cable glands	2 x M16 clamping range $\varnothing 5 \dots 10 \text{ mm}$
IP rating	IP65 according to IEC / EN 60529
Protection class	II ³⁾ according to IEC / EN 61140
Overvoltage category	II according to IEC / EN 60664-1
Pollution degree	2 according to IEC / EN 60664-1
Certificates	CE, EN1127-1:2019, NRTL according to UL/CSA 61010-1 in preparation

¹⁾ FS: Full Span - measuring range plus $\pm 0.3 \text{ Pa}$ for measuring range end values $\leq 1.5 \text{ kPa}$

²⁾ Different values may occur for options with M12 plug; these can be found in the operating instructions.

³⁾ For power supply and switch output 24 V AC / DC (not galvanically isolated), protection class III applies.



Accessories and software

Accessories

Connection parts

Order no.

Silicone tubing ID 5 mm, AD 9 mm, red
(please state length required)

9601.0160

Silicone tubing ID 5 mm, AD 9 mm, blue
(please state length required)

9601.0161

Norprene tubing ID 4,8 mm, AD 8 mm, black
(please state length required)

9061.0132

Y-piece for tubing, NW 5mm

9601.0171

Pressure connections

You can also obtain numerous customized pressure connections from us, e.g. various cutting ring fittings or hose nozzles.

