

Figure: Version with display

**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

Order-code	A	B	C	D	E	F	G	H	I	J
P29.2	-	( )	-	1	A	-	-	-	-	-

<b>Output signal<sup>4)</sup></b> (linear/root-extracted)	<b>A</b>
0..10 V (R <sub>L</sub> ≥ 2 kΩ)	1
0..20 mA (R <sub>L</sub> ≤ 500 Ω)	0
4..20 mA (R <sub>L</sub> ≤ 500 Ω)	4
2..10 V (R <sub>L</sub> ≥ 2 kΩ)	2
<sup>4)</sup> output signals can be configured freely	
<b>Measurement range</b>	<b>B</b>
Measurement range e.g. 0..250 Pa, 0..100 mmHg (etc.)	
<b>Measurement accuracy</b>	<b>C</b>
± 0.2 % FS	2
± 0.5 % FS	5
<b>Switching output</b>	<b>D</b>
Potential-free semiconductor switches (2x NO contact)	1
<b>Additional feature</b>	<b>E</b>
None	A
<b>Pressure connection</b>	<b>F</b>
laboratory tube tail DIN12898	L
Compression ring fitting 6 mm	S6
Compression ring fitting 8 mm	S8

<b>Power supply</b>	<b>G</b>
24 VAC/DC ± 10 % 50/60 Hz	1
24 VAC/DC ± 10 % 50/60 Hz (with galvanic separation)	2
<b>Electrical connection</b>	<b>H</b>
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
<b>Display</b>	<b>I</b>
None	0
LCD and keyboard	LC
<b>Calibration certificate</b>	<b>J</b>
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



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 <sup>1)</sup>	± 0.2 % FS measurement range ≤ 50 kPa or ± 0.5 % FS
Temperature coefficient span	max. 0.03 % / K
Temperature coefficient zero point	± 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 <sup>2)</sup>	DC: max. 4 W   AC: max. 8 VA
Weight	approx. 750 g
Cable glands	2 x M16 clamping range Ø 5 ... 10 mm
IP rating	IP65 according to IEC / EN 60529
Protection class	II <sup>3)</sup> 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

<sup>1)</sup> FS: Full Span - measuring range plus ± 0.3 Pa for measuring range end values ≤ 1.5 kPa  
<sup>2)</sup> Different values may occur for options with M12 plug; these can be found in the operating instructions.  
<sup>3)</sup> 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)

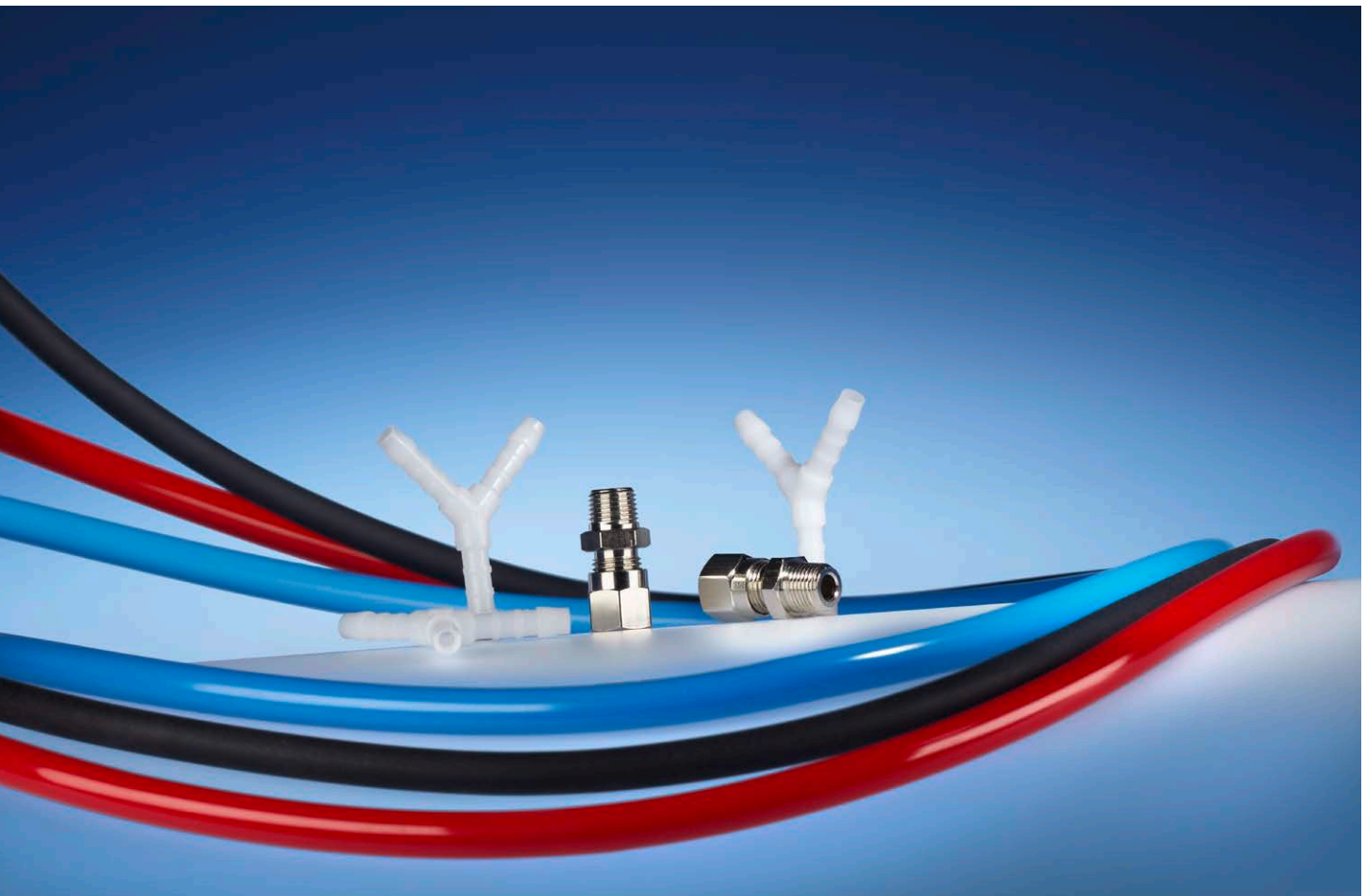
9061.0132

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.



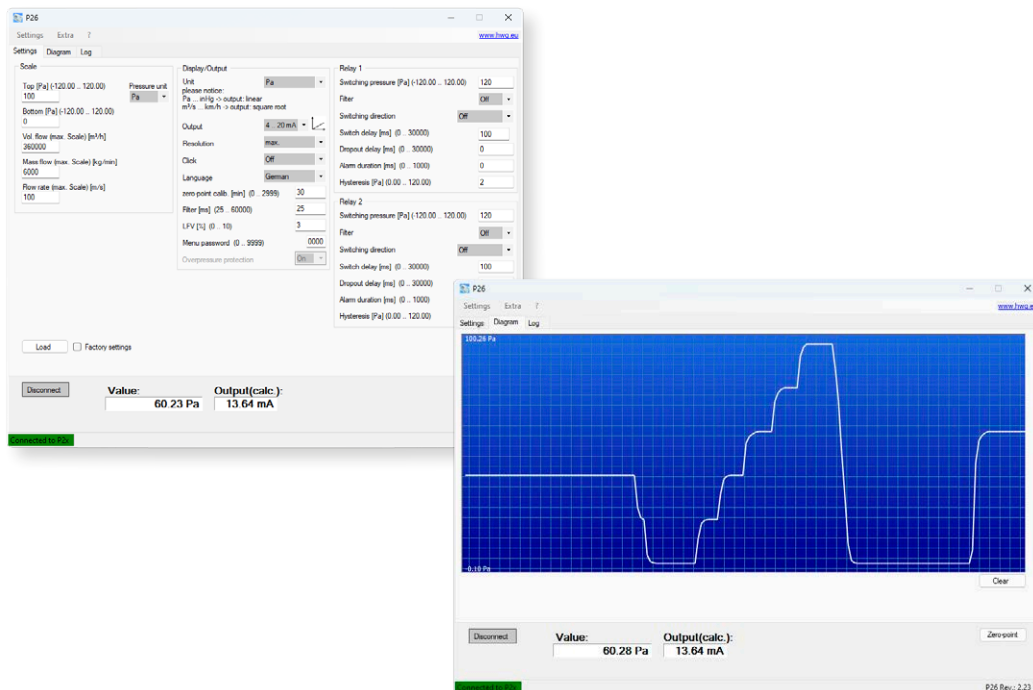
## Application software

You can set the parameters for our instruments or monitor and record measurements using a PC via a USB or RS232 interface. These features are supported by our free user software. This also allows you to transfer your settings to other devices by saving and reusing them.

Our user software is compatible with the following pressure transmitters: P 26.2, P 34 and P 29.2.

You can download the software here:

[www.halstrup-walcher.de/en/software](http://www.halstrup-walcher.de/en/software)



## Calibration services

You can also have our devices tested and confirmed in our accredited calibration laboratory in accordance with DKD-R 6-1 or as a factory calibration. Our trained experts will be happy to advise you on the calibration of our pressure measurement devices. Recalibration of third-party devices that are included in our scope of accreditation is also possible. If required, we offer adjustment for pressure measurement products manufactured by halstrup-walcher. In addition, we offer you further services within the scope of calibration, please contact us.

You can find more information at: [www.halstrup-walcher.de/en/products/calibration.php](http://www.halstrup-walcher.de/en/products/calibration.php)



To place your order, please call us at

**+49 7661 3963-0** or email us at

**info@halstrup-walcher.com.**

For additional contacts, please visit

**[www.halstrup-walcher.de/en/contact](http://www.halstrup-walcher.de/en/contact)**