



**Pressure** 

# **Electronic pressure switch with display** Model PSD-4

WIKA data sheet PE 81.86









for further approvals, see page 8



## **Applications**

- Machine tools
- Hydraulics and pneumatics
- Special machine building
- Food and pharmaceutical industry

## **Special features**

- Advanced condition monitoring via IO-Link
- Higher flexibility, lower inventory
- Easy integration combined with good readability
- Fast parameterisation via 3-buttons



#### Electronic pressure switch, model PSD-4

### Description

The PSD-4 electronic pressure switch is the universal solution for industrial automation tasks - also in hygienic applications and under harsh conditions. Due to an accuracy of < ±0.5 % and minimal long-term drift, it permanently ensures an accurate representation of the process pressure for more than 100 million load cycles. The pressure switch is available with a digital output signal as well as a switchable and scalable analogue output. In addition, it can also be easily monitored via the self-diagnostics.

#### Advanced condition monitoring via IO-Link

Condition data and the diagnostic functions allow consistent monitoring. Whether it is defective or whether the pressure or temperature values are above or below the specifications is displayed directly in the system. The data also allow conclusions to be drawn about changing process conditions. Additional information helps to check the loading.

#### Higher flexibility, lower inventory

Low stocking costs due to fewer variants: With the scalable analogue output, the measuring range can be restricted in a ratio of 5:1. In addition, the output signal can be configured specifically for the application. Thus the PSD-4 can be used

#### Easy integration combined with good readability

Thanks to the large 14-segment display and red digits, pressure values are easy to read, even in bright environments. In addition, the display's content can be turned through 180° and the case through > 300°.

### Fast parameterisation via 3-buttons

The PSD-4 can be set via 3-button operation. Display and menu offer intuitive navigation in accordance with VDMA specification 24574-1. This speeds up parameterisation and reduces the installation effort.



# **Specifications**

Accuracy specifications				
Accuracy	→ See "Max. measured e	→ See "Max. measured error per IEC 61298-2"		
Max. measured error per IEC 61298-2	≤ ±0.5 % of span			
Accuracy of the switch point	≤ ±0.5 % of span			
Adjustability of zero point	Max. ±3 % of span			
Non-repeatability per IEC 61298-2	≤ 0.1 % of span			
Temperature error at 0 80 °C [32 176 °F				
For all process connections with pressure port	≤ ±1.5 % of span			
With increased overpressure limit and process connection G ½ B flush	≤ ±2.5 % of span			
For process connections G 1 hygienic and TRI-CLAMP® 1 ½" and 2"	≤ ±3.5 % of span			
Long-term drift per IEC 61298-2	≤ ±0.1 % of span			
	≤ ±0.2 % of span	For measuring ranges $\leq$ 0.6 bar [10 psi], with increased overpressure limit, with process connection G ½ B flush or with process connections G 1 hygienic, TRI-CLAMP® 1 ½" and 2"		
Reference conditions	Per IEC 61298-1			

### Measuring ranges, gauge pressure

bar	
0 0.4 1) 2)	0 25
0 0.6 1) 2)	0 40 2)
0 1 1)	0 60 2)
0 1.6 <sup>1)</sup>	0 100 <sup>2)</sup>
0 2.5	0 160 <sup>2)</sup>
0 4	0 250 <sup>2)</sup>
06	0 400 2)
0 10	0 600 2)
0 16	0 1,000 1) 2)

1)	Not availab	le fo	r process connection G 1/2 flush.

<sup>2)</sup> Not available for process connections G 1 hygienic and TRI-CLAMP® 1  $\frac{1}{2}$ " and 2".

psi	
0 10 1) 2)	0 300
0 15 1)	0 500 2)
0 25 1)	0 1,000 <sup>2)</sup>
0 30 1)	0 1,500 <sup>2)</sup>
0 50	0 2,000 2)
0 100	0 3,000 2)
0 160	0 5,000 2)
0 200	0 7,500 <sup>2)</sup>

<sup>1)</sup> Not available for process connection G ½ flush.

#### Measuring ranges, absolute pressure

bar abs.	
0 0.4 1) 2)	0 4
0 0.6 1) 2)	06
0 1 1)	0 10
0 1.6 1)	0 16
0 2.5	0 25

<sup>1)</sup> Not available for process connection G 1/ $\!\!\!\!/$  flush. 2) Not available for process connections G 1 hygienic and TRI-CLAMP® 1 1/ $\!\!\!\!/$  and 2".

psi abs.	
0 10 1) 2)	0 100
0 15 <sup>1)</sup>	0 160
0 25 1)	0 200
0 30 1)	0 300
0 50	

TRI-CLAMP® is a trademark of the company Alfa Laval AB SE

<sup>2)</sup> Not available for process connections G 1 hygienic and TRI-CLAMP® 1 ½" and 2".

Not available for process connection G ½ flush.
 Not available for process connections G 1 hygienic and TRI-CLAMP® 1 ½" and 2".

### Vacuum and +/- measuring ranges

bar	
-1 0 <sup>1)</sup>	-1 +5
-1 +0.6 <sup>1) 2)</sup>	-1 +9
-1 +1.5	-1 +15
-1 +3	-1 +24

psi	
-14.5 0 <sup>1)</sup>	-14.5 +100
-14.5 +15 <sup>1) 2)</sup>	-14.5 +160
-14.5 +30	-14.5 <b>+</b> 200
-14.5 +50	-14.5 +300

#### Special measuring ranges on request.

With special measuring ranges there are deviations in temperature error and long-term drift.

Further details on: Measuring range	
Maximum working pressure	→ Equals the upper range value / full scale value
Overpressure limit	The overpressure limit is based on the sensor element used. Depending on the selected process connection and sealing, restrictions in overpressure limit can result.
Measuring ranges ≤ 600 bar [≤ 7,500 psi]	2 times
Measuring range 1,000 bar [14,500 psi]	1.48 times
Vacuum resistance	Yes
Digital display	
Indication range	14 segments
Units	bar, psi, kg/cm², MPa
Colour	Red (LED)
Character size	9 mm [0.35 in]
Digits	4-digit
Display	The display can be rotated electronically through 180°

#### Increased overpressure limit on request.

With increased overpressure limit there are deviations in temperature error and long-term drift.

Process connection						
Standard	Thread size	Max. measuring range		Overpressure limit		Sealing
<b>DIN EN ISO 1179-2</b>	G 1/4 A	600 bar	[8,700 psi]	858 bar	[12,440 psi]	NBR
(formerly DIN 3852-E)		1,000 bar	[14,500 psi]	1,480 bar	[21,400 psi]	FPM/FKM
	G ½ A	600 bar	[8,700 psi]	858 bar	[12,440 psi]	■ NBR ■ FPM/FKM
EN 837	G 1/4 B	600 bar	[8,700 psi]	858 bar	[12,440 psi]	<ul><li>Without</li><li>Copper</li><li>Stainless steel</li></ul>
	G 1/4 female thread	1,000 bar	[14,500 psi]	1,480 bar	[21,400 psi]	-
	G 1/2 B	1,000 bar	[14,500 psi]	1,480 bar	[21,400 psi]	<ul><li>Without</li><li>Copper</li><li>Stainless steel</li></ul>
ANSI/ASME B1.20.1	1/4 NPT	1,000 bar	[14,500 psi]	1,480 bar	[21,400 psi]	-
	½ NPT	1,000 bar	[14,500 psi]	1,480 bar	[21,400 psi]	-
ISO 7	R 1/4	600 bar	[8,700 psi]	858 bar	[12,440 psi]	-
KS	PT 1/4	600 bar	[8,700 psi]	858 bar	[12,440 psi]	-
•	G ¼ female (Ermeto compatible)	1,000 bar	[14,500 psi]	1,480 bar	[21,400 psi]	-

<sup>1)</sup> Not available for process connection G ½ flush.

<sup>2)</sup> Not available for process connections G 1 hygienic and TRI-CLAMP® 1 ½" and 2".

<sup>1)</sup> Not available for process connection G ½ flush.

<sup>2)</sup> Not available for process connections G 1 hygienic and TRI-CLAMP® 1 ½" and 2".

Process connection						
Standard	Thread size	Max. measuring range		Overpressure limit		Sealing
-	G ½ B flush	600 bar	[8,700 psi]	858 bar	[12,440 psi]	NBR
		400 bar	[5,800 psi]	600 bar	[8,000 psi]	FPM/FKM
-	G 1 hygienic 1)	25 bar	[300 psi]	50 bar	[500 psi]	■ EPDM ■ FPM/FKM
-	TRI-CLAMP® 1 ½"	Depending on the clamp used		Depending used	g on the clamp	-
-	TRI-CLAMP® 2"	Depending on the clamp used		Depending on the clamp used		-

<sup>1)</sup> Overpressure limit 1.7 times [272 psi] for gauge pressure measuring range 160 psi

Details must be tested separately in the respective application. The specified values for the overpressure limit serve only as a rough orientation. The values depend on the temperature, the sealing used, the selected torque, the type and the material of the mating thread and the prevailing operating conditions.

Further details on: Process connection		
Max. measuring range	→ See table Process connection page 3/4	
Overpressure limit	→ See table Process connection page 3/4	
Sealing	→ See table Process connection page 3/4	
Pressure port diameter	<ul> <li>3.5 mm (standard with all non-flush process connections)</li> <li>0.6 mm</li> <li>0.3 mm</li> <li>10 mm</li> </ul>	

#### **Output signal**

When ordering the PSD-4, only one of the three following output variants has to be selected. The analogue output can be ordered as  $4 \dots 20 \text{ mA}$  output, as DC  $0 \dots 10 \text{ V}$  output or with a switching option between both outputs.

The signal type, as well as the assignment of the second switching output, can be individually set during commissioning. IO-Link is optionally available for all output variants.

Output signal	Switching output 1	Switching output 2	Analogue output	IO-Link option
Output variant 1	х	х	-	Х
Output variant 2	х	-	х	Х
Output variant 3	х	х	х	Х

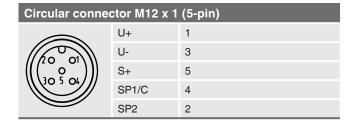
Further details on: Output signal			
Signal type			
Switching output 1	■ PNP ■ NPN		
	Factory setting: PNP		
Switching output 2	■ PNP ■ NPN		
	Factory setting: PNP		
Analogue output	<ul> <li>4 20 mA (3-wire)</li> <li>DC 0 10 V (3-wire)</li> <li>4 20 mA/DC 0 10 V (3-wire)</li> </ul>	e)	
	Factory setting: 4 20 mA (for ve	rsion with switching o	ption)
IO-Link	IO-Link is optionally available for a	all output signal config	gurations.
Switching function	<ul><li>Window</li><li>Hysteresis</li></ul>		
	Factory setting: Hysteresis		
Contact function	<ul><li>Normally open</li><li>Normally closed</li></ul>		
	Factory setting: Normally open		
Setting range of the switch points	<ul><li>Factory setting</li><li>Customer-specific</li></ul>		
Switch point 1 and switch point 2 are independent of the switch point 2 are independent of the switch point 2 are independent of the switch point 1 and switch point 2 are independent of the switch point 3 are independent		are independently se	ttable
Switch hysteresis	Minimum 0.25 % of span		
Load			
Analogue signal 4 20 mA	≤ 500 Ω		
Analogue signal DC 0 10 V	> max. output voltage/1 mA		
Signal damping	Configurable from 0 65 s		
Switching delay time	Configurable from 0 65 s		
Reset delay time	Configurable from 0 65 s		
Switching current	Max. 250 mA per switching output	t	
Switching voltage	Supply voltage - 1 V		
Communication			
IO-Link	Version	Version 1.1	
	SIO mode	Yes	
	Maximum cycle time	2.3 ms	
	Velocity	COM2 (38.4 kBau	
	Process data width	16 bit (frame type	2.2)
	Support for data management	Yes	
	Smart sensor profile	Yes	
Voltage supply	DO 45 05 V		
Supply voltage	DC 15 35 V		
Current supply	Max. 600 mA including switching		Mary 45 as 6
Current consumption	Versions without 4 20 mA output Versions with 4 20 mA output si	-	Max. 45 mA Max. 70 mA
Overvoltage protection	DC 40 V		
Dynamic behaviour			
Settling time per IEC 61298-2	Analogue signal Switching output	≤ 5 ms ≤ 5 ms	
Switch-on time	1 s		

Electrical connection		
Connection type	<ul> <li>■ Circular connector M12 x 1 (4-pin)</li> <li>■ Circular connector M12 x 1 (5-pin) 1)</li> </ul>	
Pin assignment	→ See table pin assignment below	
Ingress protection (IP code) per IEC 60529 <sup>2)</sup>	IP65 and IP67	
Short-circuit resistance	S+ / SP1 / SP2 vs. U-	
Reverse polarity protection	U+ vs. U-	
Insulation voltage	DC 500 V	

<sup>1)</sup> Only for version with two switching outputs and additional analogue signal.

#### Pin assignment

Circular connector M12 x 1 (4-pin)		
	U+	1
	U-	3
	S+	2
	SP1/C 1)	4
	SP2	2



#### Legend:

U+ Positive power supply terminalU- Negative power supply terminal

SP1 Switching output 1SP2 Switching output 2S+ Analogue output

C Communication with IO-Link

***			
Material			
Material (wetted)			
Measuring ranges < 10 bar [150 psi]	Stainless steel 316L		
	Stainless steel 1.4435/316L with G 1 hygienic and TRI-CLAMP® 1 $\mbox{\ensuremath{\%}}$ and 2" process connections		
Measuring ranges ≥ 10 bar [150 psi]	Stainless steel 316L, PH grade steel		
	Stainless steel 1.4435/316L with G 1 hygienic and TRI-CLAMP® 1 ½" and 2" process connections		
Material (in contact with the environment)			
Case	Stainless steel 304		
Keyboard	TPE-E		
Display window	PC		
Display head	PC + ABS blend		
Pressure transmission medium			
For all gauge pressure measuring ranges < 10 bar [150 psi] 1), all absolute pressure measuring ranges and G ½ flush			
With G 1 hygienic and TRI-CLAMP® 1 ½" and 2" process connections	KN92 medicinal white mineral oil, FDA-compliant per CFR 172.878 and 21 CFR 178.3620(a); conform to USP, EP and JP		
Surface roughness of wetted parts	Process connection G 1 hygienic	Ra $\leq$ 0.8 $\mu$ m (except for weld seam)	
	Process connection TRI-CLAMP® 1 ½" and 2"	Ra $\leq$ 0.76 $\mu$ m per ASME BPE SF3 (except for weld seam)	

<sup>2)</sup> The stated IP codes (per IEC 60529) only apply when plugged in using mating connectors that have the appropriate IP code.

<sup>1)</sup> Depending on the configuration of the output signals

Material				
Options for specific media				
Oil- and grease-free	Residual hydrocarbon	< 1,000 mg/m <sup>2</sup>		
Oxygen, oil- and grease-free	Residual hydrocarbon	< 200 mg/m²		
	Packaging	Protection cap on the process connection		
	Max. permissible temperature	-20 +60 °C [-4 +140 °F]		
	Available measuring ranges	■ 0 400 mbar to 0 400 bar [0 10 to 0 5,000 psi] ■ -1 0 to -1 24 bar [-14.5 0 to -14.5 300 psi]		
	Sealing	Factory supplied without sealing		
	→ Not available with process c TRI-CLAMP® 1 ½" and 2"	onnections per ISO 1179-2, G ½ B flush, G 1 hygienic and		

<sup>1) &</sup>lt; 16 bar [250 psi] with increased overpressure limit

Operating conditions				
Medium temperature limit				
Process connections with pressure port and G ½ B flush	·			
Process connection G 1 hygienic	■ -20 +100 °C [-4 +212 °F] (+135 °C [+275 °F] max. 1h) ■ -20 +125 °C [-4 +257 °F] (+150 °C [+302 °F] max. 1h) (option)			
Process connections TRI-CLAMP® 1 ½" and 2"	-20 +100 °C [-4 +212 °F] (+135 °C [+275 °F] max. 1h)			
Ambient temperature limit	-20 +80 °C [-4 +176 °F]			
Storage temperature limit	-20 +70 °C [-4 +158 °F]			
Vibration resistance per IEC 60068-2-6	20 g, 10 2,000 Hz (under resonance)			
	10 g, 10 2,000 Hz (under resonance)	For process connections G 1 hygienic and TRI-CLAMP® 1 ½" and 2"		
Shock resistance per IEC 60068-2-27	50 g, 6 ms (mechanical)			
Service life				
Switching cycles	100 million			
Load cycle (mechanical) 1)	100 million or 10 million for measuring ranges > 600 bar [7.500 psi]			

<sup>1)</sup> Not valid for G 1 hygienic and TRI-CLAMP® 1  $1\!\!\!/ \!\!\!/ ^{\!\!\!/}$  and 2"

Packaging and instrument labelling		
Packaging	Individual packaging	
Instrument labelling	<ul><li>WIKA product label, glued</li><li>Customer-specific product label on request</li></ul>	

# **Approvals**

Logo	Description	Region	
CE	EU declaration of conformity	European Union	
	EMC directive EN 61326 emission (group 1, class B) and immunity (industrial application)		
	Pressure equipment directive		
	RoHS directive		
UK	UKCA	United Kingdom	
CA	Electromagnetic compatibility regulations		
	Pressure equipment (safety) regulations		
	Restriction of hazardous substances (RoHS) regulations		
EAC	EMC directive	Eurasian Economic Community	
C UL US US	UL 1) Safety (e.g. electr. safety, overpressure,)	USA and Canada	

<sup>1)</sup> Not for hygienic connections

### **Optional approvals**

Logo	Description	Region
<b>B</b>	PAC Kazakhstan <sup>1)</sup> Metrology, measurement technology	Kazakhstan
-	PAC Ukraine <sup>1)</sup> Metrology, measurement technology	Ukraine
-	CRN Safety (e.g. electr. safety, overpressure,)	Canada
<b>3</b>	3-A <sup>2</sup> ) Sanitary Standard  This instrument is 3-A marked, based on a third party verification for conformance to the 3-A standard 74-07 (sensors and sensor fittings and connections).	USA
CERTIFE)	EHEDG <sup>2) 3)</sup> Hygienic Equipment Design EL class I, components for closed processes, cleaning with liquid: Cleaning in place (CIP) without dismounting	European Community

Not available with process connections G 1 hygienic and TRI-CLAMP® 1 ½" and 2"
 For process connection G 1 hygienic
 For process connections TRI-CLAMP® 1 ½" and 2".

### Manufacturer's information and certificates

Logo	Description
-	China RoHS directive
-	MTTF:> 100 years
-	Manufacturer's statement ADI Frei (restricted choice of versions)
-	Manufacturer's declaration of food contact materials in accordance with regulation (EC) no. 1935/2004 and regulation (EC) no. 2023/2006 on good manufacturing practice for materials and articles intended to come into contact with food

## **Test report**

Test report 1)	
Number of measuring points	3
Configurations switching output	<ul> <li>Switching function</li> <li>Contact function</li> <li>Switch point</li> <li>Reset point</li> </ul>

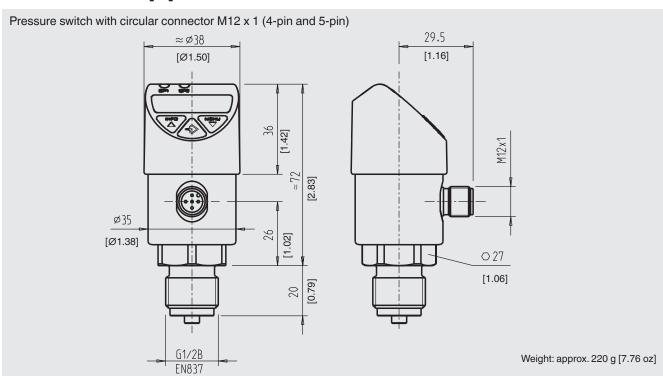
<sup>1)</sup> Not available with process connections G 1 hygienic and TRI-CLAMP  $^{\otimes}$  1  $1\!\!/\!\!2$  " and 2"

# **Certificates (option)**

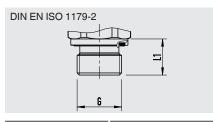
Certificates	
Certificates	<ul> <li>2.2 test report per EN 10204 (technical version "oxygen service")</li> <li>3.1 inspection certificate per EN 10204 (e.g. confirmation of the class and indication accuracy, list of single measured values)</li> <li>Material proof for wetted metal parts</li> <li>FDA conformity of the system fill fluid</li> <li>Confirmation of 3-A conformity</li> <li>Confirmation of EHEDG certification</li> <li>Confirmation of surface roughness</li> </ul>

<sup>→</sup> For approvals and certificates, see website

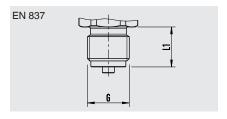
## Dimensions in mm [in]



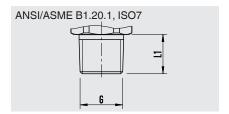
#### **Process connections**



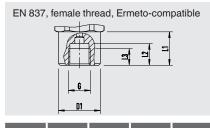
G	L1
G 1/4 A	14 [0.55]
G 1/2 A	17 [0.67]

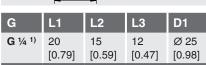


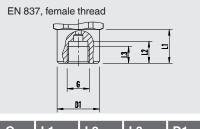
G	L1
G 1/4 B	13 [0.51]
G ½ B	20 [0.79]



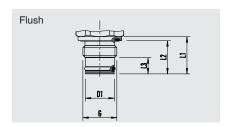
G	L1
1/4 NPT	13 [0.51]
½ NPT	19 [0.75]
R 1/4	13 [0.51]
PT 1/4	13 [0.51]





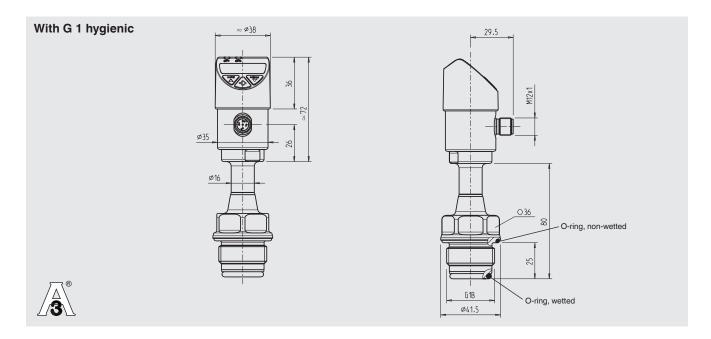


G	L1	L2	L3	D1
G 1/4	20	13	10	Ø 25
	[0.79]	[0.51]	[0.39]	[0.98]



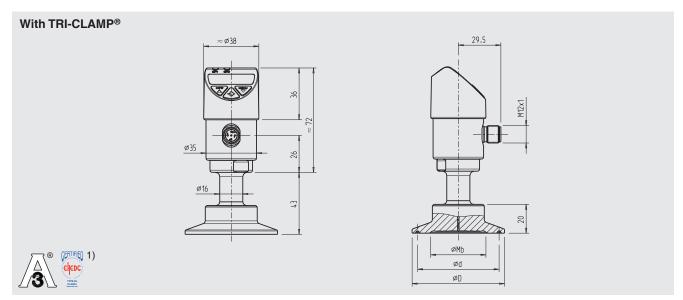
G	L1	L2	L3	D1	
G ½ B 2)	23	20.5	10	Ø 18	
	[0.91]	[0.81]	[0.39]	[0.71]	

- Ermeto-compatible
- 2) Welding sockets recommended as defined counter-thread (→ see accessories)



#### Wetted seals from EPDM or FKM

- → Suitable for WIKA adapter system model 910.61; see WIKA data sheet AC 09.20
- ightarrow For dimensions of the appropriate process adapters and welding sockets, see WIKA data sheet AC 09.20



Version		Dimensions in mm		
		Ø Mb	Ød	ØD
TRI-CLAMP® 2)	1 ½" per ASME BPE 1 ½", DIN 32676 row A DN 40, row C DN 1 ½", BS 4825 part 3 DN 38.1	32	43.5	50.5
	2" per ASME BPE 2", DIN 32676 row A DN 50, row B DN 42.4 and 48.3, row C DN 2", BS 4825 part 3 DN 50.8	40	56.6	64

EHEDG conformity only in combination with a T-ring seal from Combifit Metaalbewerking B.V.
 For maximum pressure range consider pressure rating of clamp.

Other process connections on request.

# **Spare parts**

### **Sealings**

Model				Order number	
0000	Sealings				
	G 1/4 A DIN EN ISO 1179-2	NBR	1537857		
0,00		FPM/FKM		1576534	
		FPM/FKM (for measuring range 0 .	1,000 bar)	14045531	
	G ½ A DIN EN ISO 1179-2	NBR		1039067	
		FPM/FKM	1039075		
	G 1/4 B EN 837	Copper	11250810		
		Stainless steel	11250844		
	G ½ B EN 837	Copper	11250861		
		Stainless steel		11251042	
	Sealings for G 1 hygienic, wetted				
	Conformity per FDA 21 CFR 3-A (18-03) Sanitary Standard	177.2600, USP XXV class VI and ds class 2 (max. 8 % milk fat)	EPDM 70	14004173	
	Conformity per FDA 21 CFR 177.2600, USP XXIII class VI and 3-A (18-03) Sanitary Standards class 1		FKM 75	14004174	
	Sealings for G 1 hygienic, r	non-wetted	EPDM 70	14023833	

<sup>→</sup> For further information, see WIKA data sheet DS 99.41





#### **Accessories**

Model		Description	Order number
	Welding socket for process connection G 1/2 B flush	G ½ B female, outer diameter 50 mm [2 in], material 1.4571	1192299
Configuration  First forest  yourse Contain  Market Skin  word with the	Cooling element for screwing G ½ female / G ½ male per EN 837 (for instruments with process connection G ½ B per EN 837)	Max. medium temperature 150 °C [302 °F] at an ambient temperature of max. 30 °C [86 °F] Max. operating pressure 600 bar [8,700 psi]	14109813
	3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Max. medium temperature 200 °C [392 °F] at an ambient temperature of max. 30 °C [86 °F] Max. operating pressure 600 bar [8,700 psi]	14109815
	Instrument mounting bracket	Instrument mounting bracket for PSD-4, aluminium, wall mounting	11467887

Circular cor	Circular connector M12 x 1 with moulded cable							
Model	Description	Material	IP code	Temperature limit	Cable diameter	Cable length	Order number	
	Straight version, cut to	PUR	IP67	-20 +80 °C [-4 176 °F]	4.5 mm	2 m [6.6 ft]	14086880	
	length, 4-pin, UL listed				[0.18 in]	5 m [16.4 ft]	14086883	
						10 m [32.8 ft]	14086884	
	Straight version, cut to				5.5 mm [0.22 in]	2 m [6.6 ft]	14086886	
	length, 5-pin, UL listed					5 m [16.4 ft]	14086887	
						10 m [32.8 ft]	14086888	
	Angled version, cut to				4.5 mm [0.18 in]	2 m [6.6 ft]	14086889	
- III	length, 4-pin, UL listed					5 m [16.4 ft]	14086891	
						10 m [32.8 ft]	14086892	
	Angled version, cut to				5.5 mm [0.22 in]	2 m [6.6 ft]	14086893	
	length, 5-pin, UL listed					5 m [16.4 ft]	14086894	
						10 m [32.8 ft]	14086896	

Only use the accessories and spare parts listed, otherwise it could lead to the loss of the UL approval.

#### **Ordering information**

WIKA data sheet PE 81.86 · 10/2022

Model / Output signal / IO-Link / Measuring range / Process connection / Sealing / Medium / Certificates / Approvals

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