

P2P Technology



PMP-S122-H

SPT Family: Standart Pressure Transmitter

APPROVED FOR HYDROGEN

DATASHEET

- MEASURING CELL IS FREE FROM WELDED SEAMS
- NO LEAK PATHS AND WEAK POINTS
- VACUUM-TIGHT AND ELASTOMER-FREE
- FLEXIBLE FOR CUSTOMISED REQUIREMENTS

MAIN FEATURE

- Pressure ranges*: from 4 bar to 1.000 bar
- Mechanical connections*: 9/16-18 UNF 6M; 1/2"-14 NPT; 1/4"-18 NPT; G1/4"B Mano EN 837; G1/2"B Mano EN 837; 7/16-20 UNF
- Electrical connections*: EN 175301-803-A, Packard Metri-Pack, M12x1 (S763), Packard Metri-Pack, cable
- Wetted parts: stainless steel 1.4404 (316L)
- Response time: < 1ms
- **Accuracy:** ≤ 0.5 % FSO
- Certificate: EC 79/2009 Hydrogen type approval up to 600 bar
- Optionally certificate: EX protection (ATEX, IECEx, CSA)

*others on request





DESCRIPTION

Very rugged pressure transmitter SPT (approved for H2) is based on a new type of two-chip technology (P2P Technology - our patented development), which enables the highest demands on robustness and performance such as stability, vibration/shock resistance. The piezoresistive stainless-steel measuring cell has especially been adapted to the chemical and physical properties of Hydrogen.

The entire sensor consists of a single piece, which is designed to prevent embrittlement and permeation of the metal surface by ionized hydrogen. It is also absolutely vacuum-tight and elastomer-free. Leaks caused by material fatigue on internal seals are thus eliminated from the outset. It has no disturbing pressure transfer fluid and no large pressurized surfaces. The membrane has a very robust design.

APPLICATIONS





AUTOMOTIVE INDUSTRY



ELIEL CELLS



GAS TECHNOLOGY



CHEMICAL INDUSTRY



HVAC (Heating, Ventilation, Air conditioning)

TECHNICAL SPECIFICATIONS

Pressure ranges (in bar) * Nominal pressure 1		11	NPU'	T P	ARA	MET	ERS						
Nominal pressure 4	Pressure ranges (in bar) *												
Over pressure 8		4	10	16	25	40	60	100	160	250	400	600	1000
Burst pressure 12 30 48 75 120 180 300 480 750 1200 1800 2000	·			32	50	80	120	200	320	500	800	1200	1400
Pressure type gauge, sealed reference (> 60 bar) 9/16-18 UNF 6M; 1/2"-14 NPT; 1/4"-18 NPT; G1/4"B Mano EN 837; G1/2"B Mano EN 837; 7/16-20 UNF Tightening torque typ 25 Nm; max 50 Nm Wetted parts stainless steel 1.4404 (316L) Body material Stainless steel 1.4301/AISI 304 OUTPUT SIZES Electrical connections * EN 175301-803-A, Packard Metri-Pack, M12x1 (5763) steel, M12x1 (5763) plastic, cable, EN 175301-803-C, Deutsch DT04-4P Output signal ** 420 mA 15 V ratiometric 0.54.5 V 732 V ratiometric 5.54.5 V 732 V ratiometric 5.9 DC+-10% c(Vsupply - 10)V/0.02 A ≥ 2 k Ohm ≥ 2 k Ohm ≥ 2 k Ohm PERFORMANCE CHARACTERISTICS Accuracy (25°C)*** Source (25°C)** Source (25°C)* Source (25°C)* Source (25°C)* Source (25°C)* Source (25°C)* Source (48	75	120	180	300	480	750	1200	1800	2000
Mechanical connections * G1/2"B Mano EN 837; 7/16-20 UNF					led i	refer	ence	(> 60	bar)				
Stainless steel 1.4404 (316L) Body material Stainless steel 1.4301/AISI 304 OUTPUT SIZES EN 175301-803-A, Packard Metri-Pack, M12x1 (5763) steel, M12x1 (5763) plastic, cable, EN 175301-803-C, Deutsch DT04-4P Output signal ** 420 mA 15 V ratiometric 0.54.5 V ratiometric 5 V DC+-10% < (Vsupply - 10)V/0.02 A ≥ 2 kOhm ≥ 2 kOhm PERFORMANCE CHARACTERISTICS Accuracy (25°C)*** 405 % FSO Sold Spery are in referential conditions Ambient temperature 40+ 105°C Medium temperature 40+ 125°C Storage temperature 40+ 125°C Storage temperature 40+ 125°C Shock resistance 1000 g to IEC 60068-2-32 Vibration resistance 20 g to IEC 60068-2-6 Protection class ELECTRICAL PROTECTION Reverse polarity YES Dielectric strength HV 350 V DC KS Out+ / UB- (for 1s) CE-CONFORMITY EMV guidline 2014/ 30 / EU acc. to DIN EN 61326-1, DIN EN 61326-2-3 ROHER Weight*** ~ 120 g OTHER													
Stainless steel 1.4301/AISI 304 OUTPUT SIZES Electrical connections * EN 175301-803-A, Packard Metri-Pack, M12x1 (S763) steel, M12x1 (S763) plastic, cable, EN 175301-803-C, Deutsch DT04-4P Output signal ** 4.20 mA 15 V ratiometric 0.54.5 V Supply voltage 1032 V ratiometric 5 V DC+-10% Cloud resistance (Vsupply-10)V/0.02 A ≥ 2 kOhm ≥ 2 kOhm PERFORMANCE CHARACTERISTICS Accuracy (25°C)*** So.5 % FSO Overall accuracy (-5°C 85°C) Long-term stability ≤ 0.1 % FS per year in referential conditions Ambient temperature -40+ 105°C Medium temperature -40+ 125°C Storage temperature -40+ 125°C Shock resistance 1000 g to IEC 60068-2-32 Vibration resistance 20 g to IEC 60068-2-6 Protection class depending on electrical connection, see drawing of electrical connectors ELECTRICAL PROTECTION Reverse polarity YES Dielectric strength HV 350 V DC Short-circuit protection KS Out+ / UB- (for 1s) CE-CONFORMITY EMV guidline 2014/30 / EU acc. to DIN EN 61326-1, DIN EN 61326-2-3 ROHER Weight*** ~120 g	Tightening torque	ty	p 25	Nm;	max	k 50 N	l m						
Electrical connections * EN 175301-803-A, Packard Metri-Pack, M12x1 (S763) steel, M12x1 (S763) plastic, cable, EN 175301-803-C, Deutsch DT04-4P Output signal ** 420 mA 15 V ratiometric 0.54.5 V Supply voltage 1032 V 732 V ratiometric 5 V DC+-109 Load resistance (vsupply - 10)V/0.02 A ≥ 2 kOhm ≥ 2 kOhm ≥ 2 kOhm ≥ 2 kOhm PERFORMANCE CHARACTERISTICS Accuracy (25°C)*** 3 0.5 % FSO Overall accuracy (- 5°C 85°C) Long-term stability 4 0.1.9 % FS per year in referential conditions Ambient temperature -40+ 105°C Medium temperature -40+ 125°C Storage temperature -40+ 125°C Shock resistance 1000 g to IEC 60068-2-32 Vibration resistance 20 g to IEC 60068-2-6 Protection class ELECTRICAL PROTECTION Reverse polarity YES Dielectric strength HV 350 V DC KS Out+ / UB- (for 1s) CE-CONFORMITY EMV guidline 2014 / 30 / EU acc. to DIN EN 61326-1, DIN EN 61326-2-3 ROHER OTHER Weight*** -120 g	Wetted parts	sta	ainle	SS S1	teel '	1.440	4 (31	6L)					
Electrical connections * EN 175301-803-A, Packard Metri-Pack, M12x1 (S763) steel, M12x1 (S763) plastic, cable, EN 175301-803-C, Deutsch DT04-4P Output signal ** Supply voltage Load resistance (Vsupply - 10)V/0.02 A ≥ 2 kOhm ≥ 2 kOhm PERFORMANCE CHARACTERISTICS Accuracy (25°C)*** Sole of Section 1 to 15°C Accuracy (-5°C 85°C) Long-term stability -40+ 105°C Medium temperature -40+ 105°C Medium temperature -40+ 125°C Shock resistance 1000 g to IEC 60068-2-32 Vibration resistance 20 g to IEC 60068-2-6 Protection class ELECTRICAL PROTECTION Reverse polarity YES Dielectric strength HV 350 V DC Short-circuit protection KS Out+ / UB- (for 1s) CE-CONFORMITY EMV guidline 2014 / 30 / EU acc. to DIN EN 61326-1, DIN EN 61326-2-3 ROHER OTHER Vibration OTHER	Body material	sta	ainle	ss st	teel '	1.430	1/AI	SI 304					
M12x1 (S763) plastic, cable, EN 175301-803-C, Deutsch DT04-4P Output signal ** 420 mA 15 V ratiometric 0.54.5 V Supply voltage (Vsupply - 10)V/0.02 A ≥ 2 kOhm ≥ 2 kOhm ≥ 2 kOhm PERFORMANCE CHARACTERISTICS Accuracy (25°C)*** 35 % FSO Overall accuracy (- 5°C 85°C) Long-term stability ≤ 0.1 % FS per year in referential conditions Ambient temperature 40+ 105°C Medium temperature - 40+ 125°C Storage temperature 1000 g to IEC 60068-2-32 Vibration resistance 1000 g to IEC 60068-2-6 Protection class depending on electrical connection, see drawing of electrical connectors ELECTRICAL PROTECTION Reverse polarity YES Dielectric strength HV 350 V DC Short-circuit protection KS Out+ / UB- (for 1s) CE-CONFORMITY EMV guidline 2014 / 30 / EU acc. to DIN EN 61326-1, DIN EN 61326-2-3 ROHS guideline OTHER Weight*** ~ 120 g			0	UTP	UT S	IZES							
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Comparison		42	20 m	Α				1!	5 V			ratiom	etric 0.54.5 V
Response time typ. 1 ms max. 2 ms PERFORMANCE CHARACTERISTICS Accuracy (25°C)*** ≤ 0.5 % FSO Overall accuracy (- 5°C 85°C) Long-term stability ≤ 0.1 % FS per year in referential conditions Ambient temperature - 40+ 105°C Medium temperature - 40+ 125°C Storage temperature - 40+ 125°C Shock resistance 1000 g to IEC 60068-2-32 Vibration resistance 20 g to IEC 60068-2-6 Protection class ELECTRICAL PROTECTION Reverse polarity YES Dielectric strength HV 350 V DC KS Out+ / UB- (for 1s) CE-CONFORMITY EMV guidline 2014 / 30 / EU acc. to DIN EN 61326-1, DIN EN 61326-2-3 ROHS guideline OTHER Weight*** ~ 120 g				_	10)\/	/n na	Λ						
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Accuracy (25°C)*** ≤ 0.5 % FSO Overall accuracy (- 5°C 85°C) Long-term stability ≤ 0.1 % FS per year in referential conditions Ambient temperature -40+ 105°C Medium temperature -40+ 125°C Storage temperature -40+ 125°C Shock resistance 1000 g to IEC 60068-2-32 Vibration resistance 20 g to IEC 60068-2-6 Protection class depending on electrical connection, see drawing of electrical connectors ELECTRICAL PROTECTION Reverse polarity YES Dielectric strength HV 350 V DC Short-circuit protection KS Out+ / UB- (for 1s) CE-CONFORMITY EMV guidline 2014 / 30 / EU acc. to DIN EN 61326-1, DIN EN 61326-2-3 ROHS guideline OTHER Weight*** ~ 120 g	Response time	ty	р. 1	ms	n	nax.	2 ms						
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Long-term stability \$\(\) \$0.1 % FS per year in referential conditions Ambient temperature - 40+ 105°C Medium temperature - 40+ 125°C Storage temperature - 40+ 125°C Shock resistance 1000 g to IEC 60068-2-32 Vibration resistance 20 g to IEC 60068-2-6 Protection class depending on electrical connection, see drawing of electrical connectors ELECTRICAL PROTECTION Reverse polarity YES Dielectric strength HV 350 V DC Short-circuit protection KS Out+ / UB- (for 1s) CE-CONFORMITY EMV guidline 2014 / 30 / EU acc. to DIN EN 61326-1, DIN EN 61326-2-3 ROHS guideline 2011/65/EU OTHER Weight*** ~ 120 g													
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Vibration resistance 20 g to IEC 60068-2-6 Protection class depending on electrical connection, see drawing of electrical connectors ELECTRICAL PROTECTION Reverse polarity YES Dielectric strength HV 350 V DC Short-circuit protection KS Out+ / UB- (for 1s) CE-CONFORMITY EMV guidline 2014 / 30 / EU acc. to DIN EN 61326-1, DIN EN 61326-2-3 ROHS guideline OTHER Weight*** ~ 120 g	Storage temperature	- 4	0+	125	°C								
Protection class depending on electrical connection, see drawing of electrical connectors ELECTRICAL PROTECTION Reverse polarity YES Dielectric strength HV 350 V DC Short-circuit protection KS Out+ / UB- (for 1s) CE-CONFORMITY EMV guidline 2014 / 30 / EU acc. to DIN EN 61326-1, DIN EN 61326-2-3 RoHS guideline OTHER Weight*** ~ 120 g	Shock resistance	100	00 g	to IE	C 60	068-2	2-32						
ELECTRICAL PROTECTION Reverse polarity YES Dielectric strength HV 350 V DC Short-circuit protection KS Out+ / UB- (for 1s) CE-CONFORMITY EMV guidline 2014 / 30 / EU acc. to DIN EN 61326-1, DIN EN 61326-2-3 RoHS guideline OTHER Weight*** ~ 120 g	Vibration resistance	20	g to	IEC	6006	8-2-6							
Reverse polarity Dielectric strength HV 350 V DC Short-circuit protection KS Out+ / UB- (for 1s) CE-CONFORMITY EMV guidline 2014 / 30 / EU acc. to DIN EN 61326-1, DIN EN 61326-2-3 RoHS guideline OTHER Weight*** ~ 120 g	Protection class	de	pend	ing o	n ele	ctrica	al con	nectio	on, see	draw	ing of	electri	ical connectors
Dielectric strength HV 350 V DC Short-circuit protection KS Out+ / UB- (for 1s) CE-CONFORMITY EMV guidline 2014 / 30 / EU acc. to DIN EN 61326-1, DIN EN 61326-2-3 RoHS guideline 2011/65/EU OTHER Weight*** ~ 120 g		ELE	ECTR	ICAL	. PRO	OTEC	TION						
Short-circuit protection CE-CONFORMITY EMV guidline 2014 / 30 / EU acc. to DIN EN 61326-1, DIN EN 61326-2-3 RoHS guideline OTHER Weight*** ~ 120 g	Reverse polarity	YES	5										
CE-CONFORMITY EMV guidline 2014 / 30 / EU acc. to DIN EN 61326-1, DIN EN 61326-2-3 RoHS guideline 2011/65/EU OTHER Weight*** ~ 120 g	Dielectric strength	HV 350 V DC											
EMV guidline 2014 / 30 / EU acc. to DIN EN 61326-1, DIN EN 61326-2-3 RoHS guideline 2011/65/EU OTHER Weight*** ~ 120 g	Short-circuit protection KS Out+ / UB- (for 1s)												
RoHS guideline 2011/65/EU OTHER Weight*** ~ 120 g			CE-	CON	IFOR	RMITY							
OTHER Weight*** ~ 120 g	EMV guidline	2014 / 30 / EU acc. to DIN EN 61326-1, DIN EN 61326-2-3											
Weight*** ~ 120 g	RoHS guideline	201	1/65	5/EU									
				0	ГНЕР	2							
Lifetime > 100 million cycles	Weight***	~ 13	20 g										
	Lifetime	> 1	00 m	illio	n cy	cles							

^{*}others on request

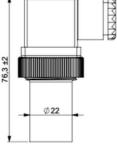
^{**} Output is calibrated at zero and full scale

^{***}depend of SPT product-version

ELECTRICAL CONNECTION

EN 175301-803-A



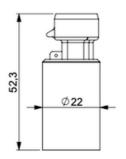


	Pin1	Pin2	Pin3	Pin4	Pin5
0.5 -4.5 V; 1-5V	+	-	V/I out	GND	Thread
4-20 mA	+	-	nc	GND	nc

Packard Metri-Pack





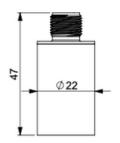


	PinA	PinB	PinC
0.5 -4.5 V; 1-5V	-	+	V/I out
4-20 mA	-	+	nc

M12x1 (S763)

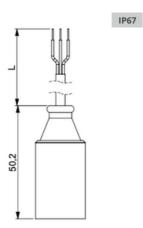






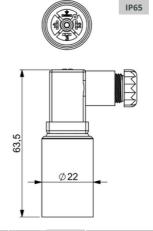
	Pin1	Pin2	Pin3	Pin4
0.5 -4.5 V; 1-5V	+	V/I out	-	nc
4-20 mA	+	nc	-	nc

Cable output



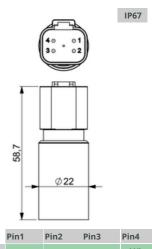
	white	brown	yellow	green
0.5 -4.5 V; 1-5V	+	-	V/I out	GND
4-20 mA	+	-	GND	GND
4-20mA digital	+	-		

EN 175301-803-C



	Pin1	Pin2	Pin3	Pin4	Pin5
0.5 -4.5 V; 1-5V	+	-	V/I out	GND	Thread
4-20 mA	+	-	nc	GND	nc

Deutsch DT04-4P



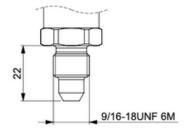
	Pin1	Pin2	Pin3	Pin4
0.5 -4.5 V; 1-5V	+	-	nc	V/I out
4-20 mA	+	_	nc	nc

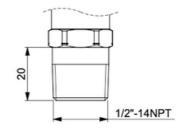


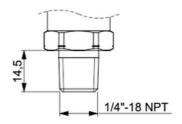
Before installation and operation, ensure that the appropriate pressure sensor has been selected in terms of pressure range, design and specific measuring conditions. Non compliance can result in serious injure and/or damage to the equipment.

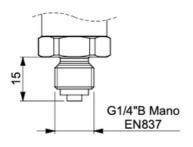
WARNING: Prignitz Mikrosystemtechnik reserve the right to modify their products without notice. It is imperative that we should be consulted over any particular use or application of our products and it is the responsibility of the buyer to establish, particularly through all the appropriate testes, that the product is suitable for the use or application. Under no circumstances will our warranty apply, nor shall we be held responsible for any application (such as any modification, addition, deletion, use in conjunction with other electrical or electronic components, circuits or assemblies, or any other unsuitable material or substance) which has not been expressly agreed by us prior to the sale of our products.

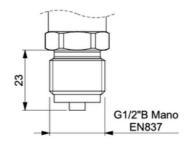
PROCESS CONNECTIONS

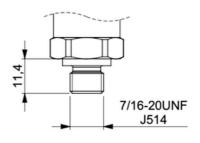












CUSTOMIZED SOLUTIONS

An indisputable advantage of the products from Prignitz Mikrosystemtechnik is that in addition to the specified parameters, a variety of specific customer requests can be implemented:

- EX versions are available for use in hazardous areas (ATEX, IECEx, CSA)
- other process and electrical connections available in a wide range of options
- analog output signals can be customized upon request.

Feel free to ask us. We are ready to implement individual solutions for you.

APPROVALS CERTIFICATE

CE Compliance: EMC directive 2014 / 30 / EU according in EN 61326-2-3

RoHS guideline: 2011/65/EU

Approved according to the European Directive EC79/2009

PRIGNITZ-Mikrosystemtechnik GmbH is certified acc. to ISO 9001. We offer a multitude of products compliant with ATEX, IECEx, CSA, and other worldwide relevant qualifications.















TRANSPORT, PACKAGING AND STORAGE

Transport

Check the pressure transmitter for any damage that may have been caused during transportation. Obvious damage must be reported immediately.

Packaging and storage

Do not remove packaging until just before mounting.

Keep the packaging as it will provide optimum protection during transport (e.g. change in installation site, sending for repair).

Permissible conditions at the place of storage:

• Storage temperature: -40 ... +125 °C

DISMOUNTING, RETURN AND DISPOSAL

Dismounting

Physical injuries and damage to property and the environment caused by hazardous media Upon contact with hazardous media (e.g. oxygen, acetylene, flammable or toxic substances), harmful media (e.g. corrosive, toxic, carcinogenic, radioactive), and also with refrigeration plants and compres- sors, there is a danger of physical injuries and damage to property and the environment.

- Should a failure occur, aggressive media with extremely high temperature and under high pressure or vacuum may be present at the instrument.
- Wear the requisite protective equipment.

Dismounting the instrument

- Depressurise and de-energise the pressure transmitter.
- Disconnect the electrical connection.
- Unscrew the pressure transmitter with a spanner using the spanner flats.

Return

Strictly observe the following when shipping the instrument:

All instruments delivered to Prignitz Mikrosystemtechnik must be free from any kind of hazardous substances (acids, bases, solutions, etc.) and must therefore be cleaned before being returned.

Edition version: D/S122-H/Rev.2/June2023/ENG

HOW TO ORDER

PMP-S122-H-XXX-(XX..XX)-XX-XXX-XXX-XXX Customised **FAMILIES Articel number** S= SPT family **ELECTRICAL** TECHNOLOGY& CONNECTION **MATERIAL 00** = Customized 22 = P2P Technology with **01** = Packard Metri-Pack stainless steel 1.4404 (316L) **02** = MVS/A **03** = MVS/C **04** = M12X1 (plastic) S763-4 **CERTIFICATION 05** = M12X1 (steel) S763-4 10 = DT04-4P**H** = EC 79/2009 (only up to **CO** = cable 600 bar) ELECTRICAL OUTPUT 12 = 4-20 mA 2L**SNUBBER** = 4-20 mA 3 L130 = 0-20 mA 3L**UR** = ratiometric **S** = snubber 005 = 0.5VN = no snubber **1U5** = 1-5V **U10** = 0-10V PRESSURE RANGES PROCESS CONNECTIONS e.g. (-1...10)**00** = customized (0...60)**05** = G1/2 B Mano (0...400)**07** = 1/2-14 NPT UNIT **08** = 1/4-18 NPT **09** = 7/16-20 UNF **01** = bar **10** = 9/16-18 UNF **16** = psi 19 = G1/4 manometer port TYPE OF PRESSURE

S = Sealed reference

g = gauge

^{*} other on request



MIKROSYSTEMTECHNIK









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