

#### Product introduction

## Description



# Monosilicon electronic pressure switch

The new generation of PS131 sensors was developed in close coordination with the users. Its modern and userfriendly design stands out. High overload protection and best accuracy.

PS131 is a pressure sensor with a pressure switch to safely and absolutely measure and monitor gauge pressures. It is highly stable and has a function check and onsite information due to its OLED and digital display. It can be rotated up to 350° if placed on the upper part of the house, also the display contents can be rotated up and down.

## Main parameters

Pressure types	Gauge pressure
Measuring range	2kPa-40MPa, please refer to the ordering information chapter
Output signal	4-20mA, 1-5VDC, PNP or NPN output, customer
Reference accuracy	±0.5%URL, ±0.2%URL option

# Field of application

Pressure, level measurement

Approvals





## Measuring medium

The fluids which compatible with wetted parts

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### Technical Specifications

### Measuring range and limit

Nominal value	Smallest calibratable span	Lower range limit (LRL)	Upper range limit (URL)	Overload limit
40kPa	2kPa	-40kPa	40kPa	1MPa
250kPa	12.5kPa	-100kPa	250kPa	4MPa
1MPa	50kPa	-100kPa	1MPa	6MPa
ЗМРа	150kPa	-0.1MPa	3МРа	15MPa
10MPa	500kPa	-0.1MPa	10MPa	20MPa
40MPa	5MPa	-0.1MPa	40MPa	80MPa

Above measurement range can be replaced by kg/cm2, MPa and kPa units. Provide other measuring range according to requirements.. Adjust requirements: lower range value (LRV) and upper range value (URV) can be adjusted within the scope of the upper and lower range limit, smallest calibratable span≤ | URV-LRV | ≤ upper range limit

### Standard specifications and reference conditions

Test standard: GB/T28474 / IEC60770; Zero based-calibration span, Linear output, Silicon oil filling, 316L stainless steeled diaphragm.

### Performance specifications

The overall performance including but not limited to I reference accuracy ], I environment temperature effects] and other comprehensive error

Typical accuracy: ±0.5%URL Stability: ±0.2% URL/ 5 years

## Reference accuracy

_	Including linearity, hysteresis and repeatability. calibration temperature: 20°C ± 5°C			
Linear output	TD ≤10(Note 1)	1	Nominal value: 40kPa, 250kPa	
accuracy	curacy 10 <td≤20< td=""><td>LO OFTDO</td><td>1MPa, 3MPa 10MPa, 40MPa</td></td≤20<>	LO OFTDO	1MPa, 3MPa 10MPa, 40MPa	
Note 1: TI	Note 1: TD is Turn down, TD=URL/   URV-LRV			

, ,

# Power supply effects

Zero and span change should not be more than ± 0.005% URL/V

### Mounting position effects

Apply to any position. Install error less than 400Pa, which can be corrected by PV=0 reset.

### Vibration effects

According to GB/T 1827.3/IEC61298-3 tests, <0.1% URL

### Output signal

Signal	Туре	Output
4-20mA	Linearity	Three wire
PNP or NPN	Non-Linearity	Three wire
0-5VDC	Linearity	Three wire
4-20mA+1PNP or NPN	/	Four wire
4-20mA+2PNP or NPN	/	Five wire

# Ambient temperature effects(Typical)

Within the range -20-80°C total impact |±0.2% span/10k

### Insulation resistance

≥20M Ω@, 100VDC

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### Technical Specifications

# Damping time

Startup after power off : ≤3S
Normal services after data recovery:≤10S

# Weight

Net weight: about 1 kg ( without mounting bracket and process connection adaptor )

### **Environment condition**

Items	Operational condition
Working temperature	-20-85℃
Storage temperature	-40-85℃
Media temperature	Sensor with silicon oil filling: -40- 120℃
Working humidity	0-95%RH@40℃
Protection class	IP67

## **Technical Specifications**

Signal output	4-20mA	1-5VDC	PNP/NPN
Power supply voltage	12-32VDC	12-32VDC	12-32VDC
Electric current	≤60mA	≤41mA	≤45mA
Load resistance( $\Omega$ )	<(U-12)/0.06	≥5k, recommend 100k	/
Transmission distance	<1000m	<5m	/
Power consumption			
*The load current value is ≤ 300mA for 1 way PNP or NPN			

# EMC environment(only for current signal output)

NO.	Test items	Basic standards	Test conditions	Performance level
1	Radiated interference	GB/T 9254/CISPR22	30MHz-1000MHz	ок
2	Conducted interference (DC power port)	GB/T 9254/CISPR22	0.15MHz-30MHz	ок
3	Electrostatic discharge immunity test (ESD)	GB/T 17626.2/IEC61000-4-2	4kV(Contact),8kV(Air)	B(Note2)
4	Immunity to radio frequency EM-fields	GB/T 17626.3/IEC61000-4-3	10V/m(80MHz-1GHz)	A(Note1)
5	Power frequency magnetic field Immunity test	GB/T 17626.8/IEC61000-4-8	30A/m	A(Note1)
6	Electrical fast transient / Burst Immunity Test	GB/T 17626.4/IEC61000-4-4	2kV(5/50ns,100kHz)	B(Note2)
7	Surge immunity requirements	GB/T 17626.5/IEC61000-4-5	1kV(Line to line) 2kV(Line to ground) (1.2us/50us)	B(Note2)
	Immunity to conducted disturbances induced by radio frequency fields	GB/T 17626.6/IEC61000-4-6	3V(150kHz-80MHz)	A(Note1)

(Note 1)Performance level A: The preformance within the limits of normal technical specifications.

(Note 2)Performance level B: Temporary reduction or loss of functionality or preformance, it can restore itself. The actual operating conditions, storage and data will not be changed.

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#### Menu function

# Transmission module type

Output signal	Local control	Remote control
4-20mA	OLED/3 buttons on body	-

# LED display unit

Display mode	Details
Pressure & Unit	Two-row display: pressure value and unit
XX.X&P&Unit	Three-row display: percentage, pressure value and unit
SPn&P&RPn	Three-row display: SPn, pressure value and RPn

# Unit

Unit	Definition
kPa	Kilopascal
МРа	Megapascals
bar	Bar
psi	Pounds per square inch
mmHg	Millimetre(s) of mercury@0°C
mmH2O	Millimeter of water@4°C
mH2O	Meter of water@4°C
inH2O	Inches of water@4°C
ftH2O	Feet of water@4°C
inHg	Inches of mercury@0°C
mHg	Meter mercury column@0°C
TORR	Torr
mbar	Millibar
g/cm2	Gram per square centimeter
kg/cm2	Kilogram per square centimeter
Ра	PA
ATM	Standard atmospheric pressure
mm	Millimeter(Note1)
m	Meter(Note1)
Note1: len	gth unit need mark medium density

# Measuring menu set

Mark	State	
URV	Upper	ange value, 20mA
LRV	Lower	ange value, 4mA

# Analog output type

Parameters	Output type
mA LINER	Linearity

## Alarm signal

Parameter	Description
AOLC	When too small pressure lead to output current < AOLC setting value, display Out <aolc< td=""></aolc<>
AOHC	When too large pressure lead to output current > AOHC setting value, display Out>AOHC

# Fix output

Parameter	Fix output value	
FIX/C NO	None	
3.8000	3.8000mA	
4.0000	4.0000mA	
8.0000	8.0000mA	
12.000	12.000mA	
16.000	16.000mA	
20.000	20.000mA	
20.800	20.800mA	

# Quick menu

Parameter	Instruction	
PV=0	Set current analog output to zero value.(gauge pressure, differential pressure)	
Zero adjustment	4mA re-range with pressure	
Span adjustment	20mA re-range with pressure	
Restore factory setting	Restore backup data when error	

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#### Product selection instruction

# Sensor type select instruction

Code	Nominal value	Description	
S403G	40kPa	Range -40kPa-40kPa, smallest calibratable span 2kPa	
S254G	250kPa	Range -100kPa-250kPa, smallest calibratable span 12.5kPa	
S105G	1МРа	Range -0.1MPa-1MPa, smallest calibratable span 50kPa	
S305G	3МРа	Range -0.1MPa-3MkPa, smallest calibratable span 150kPa	
S106G	10MPa	Range -0.1MPa-10MPa, smallest calibratable span 500kPa	
S406S	40MPa	Range -0.1MPa-40MPa, smallest calibratable span 5MPa	

Adjust requirements: lower range value (LRV) and upper range value (URV) can be adjusted within the scope of the upper and lower range limit, smallest calibratable span≤|URV - LRV |≤URL

Code	Position	Instruction		
S	Isolated	SUS316L		
Н	diaphragm material	Hastelloy C		
S	Isolated filling fluid	Silicon oil, process temperature: -45-205℃		
D		Fluorocarbon oil, process temperature: -45-160°C		
F	Sensor seal	Stainless steel welding seal		
S		FKM		
Isolate	Isolated diaphragm (S/H)			



# Electrical connection select instruction

Code	Description
Н3	Aviation plug, M12*1, 5 pins, IP67
H4	Aviation plug, M12*1, 4 pins, IP67

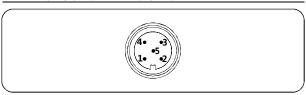
# Aviation plug (H3), M12\*1 (5 pins)



# Aviation plug (H4), M12\*1 (4 pins)

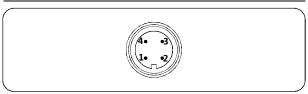


## Aviation plug (H3), M12\*1 (5 pins)



1	2	3	4	5
Power+	Transistor output 2	Power-	Transistor output 1	*Signal-
*Signal type: 4-20mA, 1-5VDC				

# Aviation plug (H4), M12\*1 (4 pins)



1	2	3	4
Power+	Transistor output 2	Power-	Transistor output 1
Power+	Transistor output 2	Power-	Transistor output 1
Power+		Power-	
Power+	*Signal	Power-	Transistor output 1

\*Signal type: 4-20mA, 1-5VDC

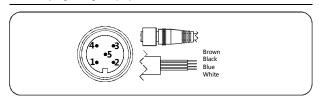
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#### Product selection instruction

## Electrical connection accessories

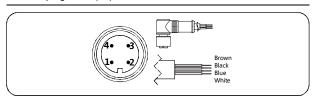
## Aviation plug straighter(J1)



1/Brown	2/White	3/Blue	4/Black
Power+	Transistor output 2	Power-	Transistor output 1
Power+	Transistor output 2	Power-	
Power+		Power-	Transistor output 1
Power+	*Signal+	Power-	Transistor output 1

\*Signal type: 4-20mA, 1-5VDC

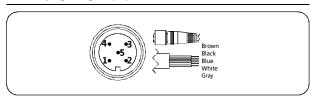
## Aviation plug elbow(J2)



1/Brown	2/White	3/Blue	4/Black
Power+	Transistor output 2	Power-	Transistor output 1
Power+	Transistor output 2	Power-	
Power+		Power-	Transistor output 1
Power+	*Signal+	Power-	Transistor output 1

\*Signal type: 4-20mA, 1-5VDC

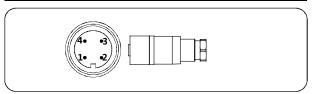
## Aviation plug straighter(J3)



1/Brown	2/White	3/Blue	4/Black	5/Gray
Power+	Transistor output 2	Power-	Transistor output 1	*Signal+

\*Signal type: 4-20mA, 1-5VDC

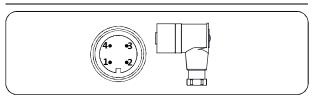
## Aviation plug straighter(J4)



1	2	3	4
Power+	Transistor output 2	Power-	Transistor output 1
Power+	Transistor output 2	Power-	
Power+		Power-	Transistor output 1
Power+	*Signal+	Power-	Transistor output 1

\*Signal type: 4-20mA, 1-5VDC

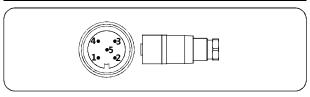
### Aviation plug elbow(J5)



1	2	3	4
Power+	Transistor output 2	Power-	Transistor output 1
Power+	Transistor output 2	Power-	
Power+		Power-	Transistor output 1
Power+	*Signal+	Power-	Transistor output 1

\*Signal type: 4-20mA, 1-5VDC

### Aviation plug straighter(J6)



1	2	3	4	5
Power+	Transistor output 2	Power-	Transistor output 1	*Signal+

\*Signal type: 4-20mA, 1-5VDC

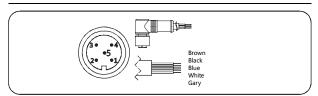
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#### Product selection instruction

## Electrical connection accessories

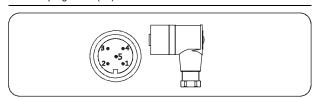
### Aviation plug elbow(J7)



1	2	3	4	5
Power+	Transistor output 2	Power-	Transistor output 1	*Signal+

\*Signal type: 4-20mA, 1-5VDC

### Aviation plug elbow(J8)



1	2	3	4	5
Power+	Transistor output 2	Power-	Transistor output 1	*Signal+

\*Signal type: 4-20mA, 1-5VDC

# Output signal select instruction

Code	Description	
FN	4-20mA+NPN, power supply: 12-32VDC	
FP	4-20mA+PNP, power supply: 12-32VDC	

# Display module (E)



# Contact alarm select instruction

Code	Туре	Description
		One PNP or NPN output
2	contact	Two PNP or NPN output

C1	First contact	Customer setting
A1	alarm value	Factory setting
L1	First alarm method	Lower than alarm value, output high electrical level
H1		Higher than alarm value, output high electrical level
W1		Alarming in window
W2		Alarming out window
C2	Second	Customer setting
A2	contact alarm value	Factory setting
L2	Second alarm	Lower than alarm value, output high electrical level
H2	method	Higher than alarm value, output high electrical level
W1		Alarming in window
W2		Alarming out window

# Process connection select instruction

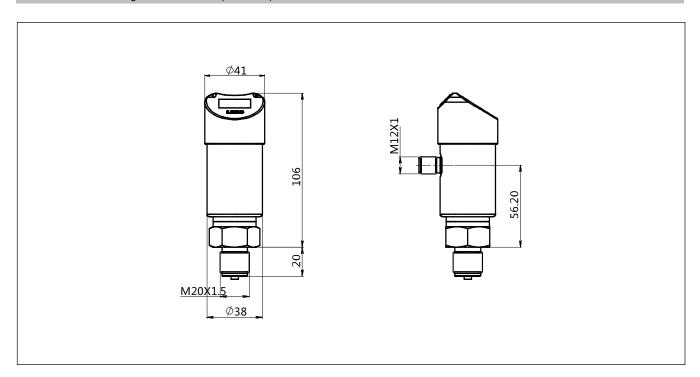
Code	Туре	Description
4	Material	SUS304
6		SUS316
M01	Specificatioins	M20*1.5(M), Φ3 pressure lead hole, GB/T193-2003, ISO261
G01		G1/2(M),Φ3 pressure lead hole, EN837
G02		G1/4(M), Φ3 pressure lead hole, EN837
G08		G1/4(M), Φ3 pressure lead hole, GB/T7037, ISO228 , DIN16288, Bs2779, seal reference DIN3852-E(back-end seal)
R01		1/2-14NPT(M), Φ3 pressure lead hole, GB/T12716, ANSI/ASME B1.20.1B1.20.1
R02		1/4-18NPT(M), Φ3 pressure lead hole, GB/T12716, ANSI/ASME B1.20.1B1.20.1
R03		1/2-14NPT(F), Ф3 pressure lead hole, GB/T12716, ANSI/ASME B1.20.1B1.20.1
R04		1/4-18NPT(F), Φ3 pressure lead hole, GB/T12716, ANSI/ASME B1.20.1B1.20.1

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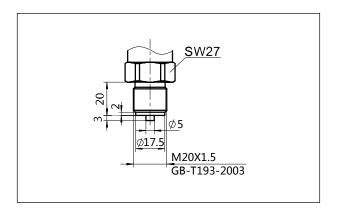


### Product drawing and dimension

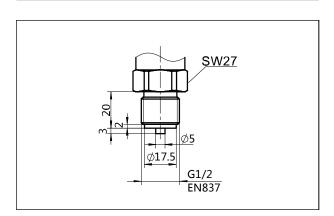
# PS131-TSR-S drawing and dimension (unit: mm)



# Process connection(M01) (unit: mm)



## Process connection(G01) (unit: mm)

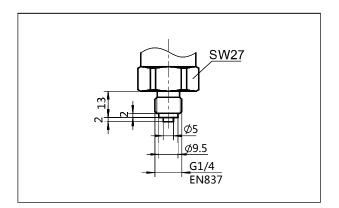


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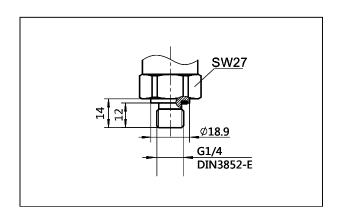


### Product drawing and dimensior

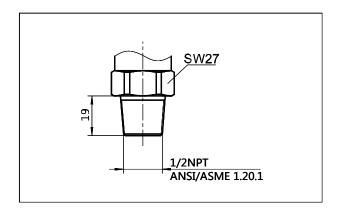
# Process connection(G02) (unit: mm)



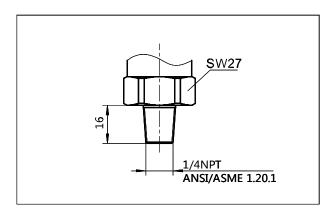
## Process connection(G08) (unit: mm)



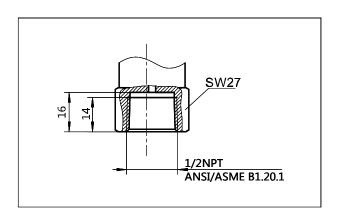
## Process connection (R01) (unit: mm)



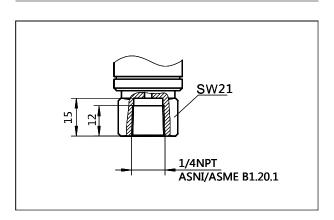
# Process connection (R02) (unit: mm)



## Process connection (R03) (unit: mm)



# Process connection (R04) (unit: mm)

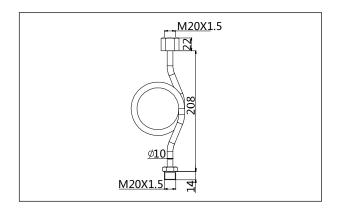


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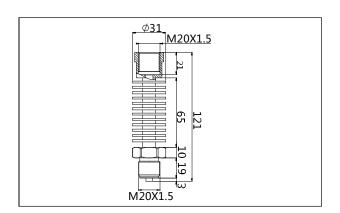


### Product drawing and dimension

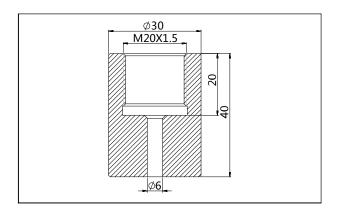
## Heat exchange connector (N1) (unit: mm)



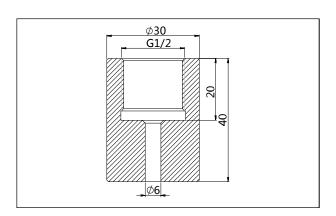
## Heat exchange connector (N2) (unit: mm)



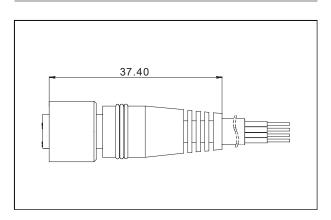
# Welding adaptor (Z1) (unit: mm)



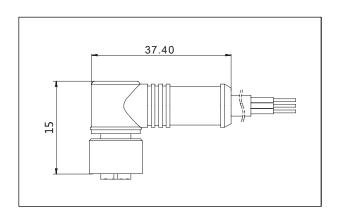
# Welding adaptor (Z2) (unit: mm)



## Aviation female plug straighter (4 pins) (J1) (unit: mm)



# Aviation female plug elbow (4 pins) (J2) (unit: mm)

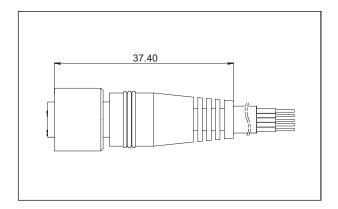


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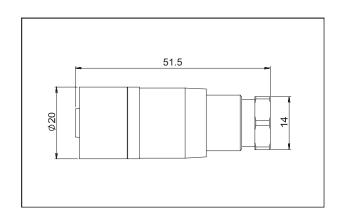


### Product drawing and dimension

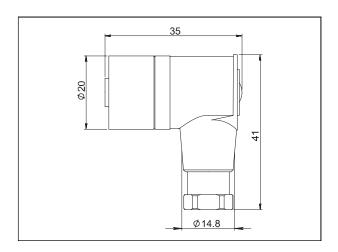
# Aviation female plug straighter (5 pins) (J3) (unit: mm)



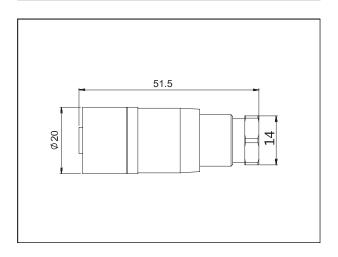
## Aviation female plug straighter (4 pins) (J4) (unit: mm)



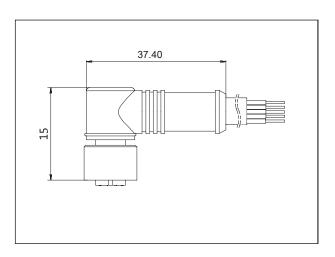
## Aviation female plug elbow (4 pins) (J5) (unit: mm)



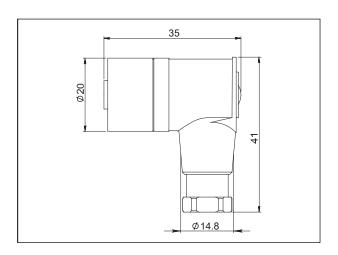
Aviation female plug straighter (5 pins) (J6) (unit: mm)



# Aviation female plug elbow (5 pins) (J7) (unit: mm)



# Aviation female plug elbow (5 pins) (J8) (unit: mm)



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#### Ordering information chapter

Item	Parameters	Code	Instruction	(*)Fast delivery available
	Model	PS131-TSR	Monosilicon electronic pressure switch	
Sensor	Separator	-	Detailed specifications as following	
	Pressure range code	S403G	Nominal value(URL): 40kPa	
		S254G	Nominal value(URL): 250kPa	*
		S105G	Nominal value(URL): 1MPa	
		S305G	Nominal value(URL): 3MPa	*
		S106G	Nominal value(URL): 10MPa	*
		S406S	Nominal value(URL): 40MPa	
	Isolation	S	SUS316	*
	diaphragm material	Н	Hastelloy C	
	Isolation	S	Silicon Oil, process temperature: -45-250°C	*
	fluid filling	D	Fluorocarbon oil, process temperature: -45-160°C	
	Sensor seal	F	Stainless steel welding seal	*
		S	FKM	
Electrical connetion	Separator	-	Detailed specifications as following	
	Electrical connetion	Н3	Aviation plug, M12*1(5 pins), IP67 (For signal 4-20mA+2 way transistor output)	*
		H4	Aviation plug, M12*1(4 pins), IP67	*
	Cable entry protector	R0	None	*
Output	Separator	-	Detailed specifications as following	
	Output signal	FN	4-20mA + NPN, power supply: 12-32VDC	
		FP	4-20mA + PNP, power supply: 12-32VDC	*
	Display	E	With OLED display	*
	mode	А	Without display	
	Output	1	One way output contact	
	contact	2	Two way output contact	
	First	C1	Customer setting	
	contact alarm value	A1	Factory setting	
	First alarm	L1	N, P: Lower than alarm value, output high level	
	method	H1	N, P: Higher than alarm value, output high level	
		W1	Alarming in window	
		W2	Alarming out window	
	Second	C2	Customer setting	
	contact alarm value	A2	Factory setting	
	Second	L2	N, P: Lower than alarm value, output high electrical level	
	alarm method	H2	N, P: Higher than alarm value, output high electrical level	
		W1	Alarming in window	
		W2	Alarming out window	

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### Ordering information chapter

Tube type	Separator	-	Detailed specifications as following	
		57	Stainless steel tube length: 57mm	
Process connection	Separator	-	Detailed specifications as following	
	Material	4	SUS304	
	6		SUS316	*
	Specification	M01	M20*1.5 (M), Ф3 pressure lead hole, GB/T193-2003, ISO261	*
		G01	G1/2 (M), Φ3 pressure lead hole, EN837	*
		G02	G1/4(M), Φ3 pressure lead hole, EN837	
		G08	G1/4(M), Φ3 pressure lead hole, GB/T7307, ISO228, DIN16288, BS2779, seal refers to DIN3852-E (back-end seal)	
		R01	1/2 -14NPT(M), Φ3 pressure lead hole, GB/T12716, ANSI/ASME B1.20.1	*
		R02	1/4 -18NPT(M), Φ3 pressure lead hole, GB/T12716, ANSI/ASME B1.20.1	
		R03	1/2 -14NPT(F), Φ3 pressure lead hole, GB/T12716, ANSI/ASME B1.20.1	
		R04	1/4 -18NPT(F), Φ3 pressure lead hole, GB/T12716, ANSI/ASME B1.20.1B1.20.1	
Additional options			Detailed specifications as following(multiple)	
	Factory setting pressure alarm value	*/A1-XXX	The first contact alarming value: XXX, the first two are valid numbers and the third is X-th power of ten. Unit: Pa	
		*/A2-XXX	The second contact alarming value: XXX, the first two are valid numbers and the third is X-th power of ten. Unit: Pa	
	Electrical connection accessory	/J1	Aviation female plug (straighter) with 2m cable, 4 pins, M12*1, IP67	
		/J2	Aviation female plug (elbow) with 2m cable, 4 pins, M12*1, IP67	
		/J3	Aviation female plug (straighter) with 2m cable, 5 pins, M12*1, IP67	
		/J4	Aviation female plug (straighter) without cable, 4 pins, M12*1, IP67	*
		/J5	Aviation female plug (elbow) without cable, 4 pins, M12*1, IP67	
		/J6	Aviation female plug (straighter) without cable, 5 pins, M12*1, IP67	*
		/J7	Aviation female plug (elbow) with 2m cable, 5 pins, M12*1, IP67	
		/J8	Aviation female plug (elbow) without cable, 5 pins, M12*1, IP67	*
	Process connection	/N1	Heat exchange connector, M20*1.5 (F) change to M20*1.5(M), SUS304	
	mounting accessory	/N2	Heat exchange connector, M20*1.5 (F) change to M20*1.5(M), SUS304	
	Process	/Z1	Welding connector, M20*1.5(F), SUS304	
	connection accessory	/Z2	Welding adaptor, G1/2(F), SUS304	
	Display mode	/D1	According to your requirement	
	Calibration report	/Q1	Calibration report provided by our company	*
	Approvals	/F3	CE certificate	

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### Ordering information chapter

## \*Eg, A1-105 means the pressure alarming value of A1 contact is 10\*105=106=1MPa

#### Factory settings and parameters

Item	Menu mark	Factory setting value
Tag position	None	None
Analog output type	None	4-20mA
Display mode	DisMod	Pressure&Unit
Alarm URV	AOLC	3.800mA
Alarm LRV	AOHC	23.000mA

Item	Menu mark	Factory setting value
4mA Lower range value	LRV	According to the order
20mA Upper range value	URV	According to the order
Process unit	Unit	According to the order

#### Approvals

# Factory certificate

Certification organization	Intertek
Quality management system	ISO9001-2008
ISCORE OF CERTIFICATION	Design and production of pressure transmitter
Registration number	110804039

# CE certificate

Certificate organization	ISET
License scope	PS series electronic pressure switch
Mark	CE
EMC instruction	2014/30/EU
Standard	EN61326-1:2013
Registration number	IT011353LG161207







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