Main Specifications

▼Pressure connection

Material: SS304 / 316 M20x1.5, G1/4", G1/2" 1/4" NPT (F), 1/4" NPT (M)

1/2" NPT (F). 1/2" NPT (M)

▼Electrical connection

M12x1 4-pin aviation plug / M12x1 5-pin aviation plug For more specifications please refer to the selection table

▼Pressure range

0...1kPa~40MPa

For details please refer to pressure range table

▼Analog output signal

4-20mA (Transmission distance <1000m)

▼Switch output signal

NPN / PNP

▼Digital output signal (option)

(Transmission distance

<1200m)

▼Applicable media

Liquid and gas that compatible with pressure connection

▼ Media temperature

-40 to 120°C

▼Ambient temperature

-40 to 85°C

▼Storage temperature

-40 to 85°C

▼Relative humidity

0...95%RH@40°C

▼Protection level

IP67

Other Specifications

▼Screen display

5-digit OLED screen

23 x 13mm

▼Pressure unit

kPa, MPa, bar, psi, mmHq, mmH₂O, mH₂O, inH₂O, ftH₂O, inHg, mHg, Torr, mbar, g/cm², kg/cm², Pa, atm, mm, m

12...30VDC

▼Rated current

≤60mA (4-20mA)

≤45mA (RS485)

▼Power consumption

≤1.44W (4-20Ma output)

≤1.08W (RS485 output)

Stainless steel welding with isolation diaphragm Material: SS316 / Hastelloy C

▼Stability

±0.2% F.S./ 5 years

▼Insulation resistance

≥20mΩ, 100VDC

▼Load resistance

▼Weight

(Not include mounting

brackets and threaded fittings)

▼Screen size

▼Power supply

▼ Measuring element

Inside liquid filling: Silicon oil

▼Comprehensive accuracy

±0.25% F.S. (standard)

±0.1% F.S. (options)

< (Power supply-12)/ 0.06

About 1kg

Pressure range table

Nominal range	Description	
6kPa	Range upper and lower limit: -6…6kPa	Min. range; 1kPa
40kPa	Range upper and lower limit: -40…40kPa	Min. range: 2kPa
250kPa	Range upper and lower limit: -100…250kPa	Min. range 12.5kPa
1MPa	Range upper and lower limit: -0.1…1MPa	Min. range 50kPa
3MPa	Range upper and lower limit: -0.1…3MPa	Min. range 150kPa
10MPa	Range upper and lower limit: -0.1…10MPa	Min. range 500kPa
40MPa	Range upper and lower limit: -0.1…40MPa	Min. range 5MPa

Note:

Set the upper and lower limit value requirements: The lower limit value (LRV) and the upper limit value (URV) within the range of upper and lower limits, the minimum range ≤ | URV-LRV | ≤ upper range limit

Digital Pressure Switch Model: DPS-L131 Introduction

DPS-L131 is a high performance digital pressure switch adopts monocrystalline silicon sealing technology and integrated design. The sensor is located on the top of the body, away from the media contact surface, with mechanical isolation and thermal isolation and other functions. DPS-L131 can be applied to the extreme chemical environment, mechanical load and electromagnetic interference and other harsh industrial pressure measurement and control requirements.



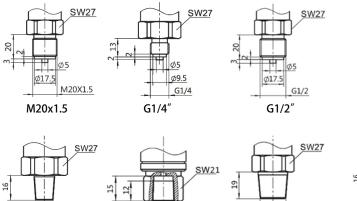
Due to the variety of customization, the picture is only for reference, please confirm the actual item with our sales. (If there is any change on specification, please take the latest version as standard.)

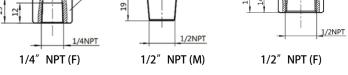
Features

- 5-digit OLED highlight screen display, three-button control design
- Switchable three display modes: Pressure value + unit / Percentage + pressure value + unit / SPn, pressure value and RPn
- 350° rotatable head · 180° flip screen, suitable to read from any angle
- NPN / PNP switch signal output
- RS485 signal output available
- Various switchable pressure units
- Save and track the measured data
- Independent breathable cavity structure, isolate the gas-conducting end from the electronic room, reduce the impact of external temperature and humidity
- Protection level IP67

Dimensions

Thread specifications

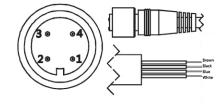




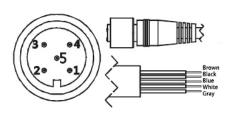
Electrical connector

1/4NPT

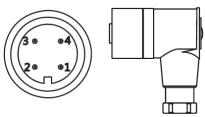
1/4" NPT (M)



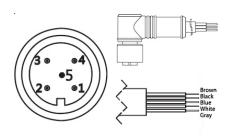
4-pin aviation plug straighter with 2M cable



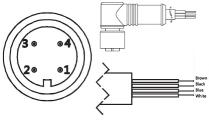
5-pin aviation plug straighter with 2M cable



4-pin aviation plug elbow without cable

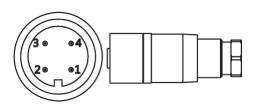


5-pin aviation plug straighter with 2M cable

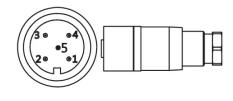


<u>SW2</u>7

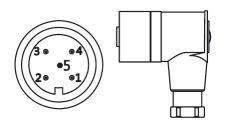
4-pin aviation plug elbow with 2M cable



4-pin aviation plug straighter without cable

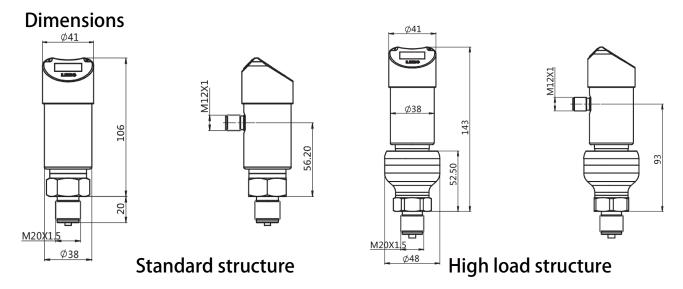


5-pin aviation plug straighter without cable



5-pin aviation plug elbow without cable





How to order

Sociation Sociation Society	DPS-L131 Digital Pressure Switch										
Structure	Std.	Spec.	Code		Code		Code	ltem	Code	ltem	
Structure Stru	S	Structure	S		Н		_	_	_		
1		Structure	J	structure		structure					
1		Proceuro	4G	G1/2"	26	G1/4"	4N (M)	1/2" NPT (M)	4N (F)	1/2" NPT (F)	
Section Fresure Gauge pressure G	4G						, ,			1/2 NFT(I)	
Selectrical connector											
Sealed pressure 1				4-pin aviation		4-pin aviation		5-pin aviation		4-pin aviation plug	
Custom Pressure range Gauge pressure — (06kPa to 10MPa) Compound pressure — (10 to 40MPa) Sealed pressure — (0 to 40MPa) Sealed pressure — — — — — — — — — — — — — — — — — — —			J1		J2		J3		J4	straighter	
Custom Pressure range Gauge pressure — (0 6kPa to 10MPa) Custom Pressure range Gauge pressure — (0 6kPa to 10MPa) Negative pressure — (0 to 40MPa) Negative pressure — (0 to 40MPa) Sealed pressure — (0 to 40MP	11									without cable	
Custom Pressure range Gauge pressure — (0···· 6kPa to 10MPa) Compound pressure — (0·1 to 40MPa) Negative pressure — (0 to 40MPa) Sealed pressure — (0 to 40MPa) General pressure — (0···· 6kPa to 10MPa) Sealed pressure — (0···· to 40MPa) Sealed pressure — (0···· to 40MPa) General pressure — (0···· 6kPa to 10MPa) Sealed pressure — (0···· 6kPa) Sealed pressure — Sealed pressure — — — — — — — — — — — — — — — — — — —	٠,	connector			16				10	5-pin aviation plug	
Custom			J5		J6		J/		78	elbow without cable	
Custom Pressure Custom Pressure - (2-0 to 1 to 40MPa) Sealed pressure - (-20 to 0 MPa) Sealed press				without cable		without cable		WILLI ZIVI CADIE			
Custom Pressure Custom Pressure - (2-0 to 1 to 40MPa) Sealed pressure - (-20 to 0 MPa) Sealed press	Gauge pressure — (06kPa to 10MPa)										
Negative pressure		Pressure	Compound pressure – (-0.1 to 40MPa)								
Sealed pressure	Custom										
Sealed pressure C pressure V pressure S Sealed pressure S		, and the second second	Sealed p	ressure – (0 to 40)	MPa)						
Sealed pressure C pressure V pressure S Sealed pressure S											
Signal output	G		G	Gauge pressure	С		V	•	S	Sealed pressure	
Diaphragm 316		type	_	3-	_	pressure	-	pressure	_		
Diaphragm 316		Connection								I	
316	304		304	SS304	316	SS316	0	Others	_	_	
FN Signal output FN 4-20mA+NPN FP 4-20mA+PNP — — — — — — — — — — — — — — — — — —		material									
FN Signal output FN 4-20mA+NPN FP 4-20mA+PNP — — — — — — — — — — — — — — — — — —	24.6	Diaphragm	246	55246	116						
1 Contacts number 1 One set 2 Two set	316		316	SS316	HC	Hastelloy C	_	_	_	_	
1 Contacts number 1 One set 2 Two set					•						
1 Contacts number 1 One set 2 Two set Y Screen display N No Y LED display N RS485 output N No Y RS485 A1 Contact alarm setting W1 Custom setting A1 Factory setting L1 Alarm method L1 Lower than alarm value, output high electrical level electrical level electrical level O25 Accuracy O25 ±0.25% F.S. O1 ±0.1% F.S O4A Third party notarized documents /B Inspection report O5B /C Tag /D Specify factory set pressure alarm value O6B /C Tag /D Specify factory set pressure alarm value O7B Inspection report O7C Tag /D Specify factory set pressure alarm value O7B Inspection report O7C Tag /D Specify factory set pressure alarm value O7B Inspection report O7B Heat exchange connector - condenser tube O7B Inspection report	EN	Signal	EN	1-20m A±NPN	ED	1-20m A + DND		_	_	_	
Y Screen display N No Y LED display	1 11	output	1 11	4-2011ATNI N	11	4-2011A+11N1					
Y Screen display N No Y LED display				T		T				Т	
Y Screen display N No Y LED display	1		1	One set	2	Two set	_	_	_	_	
N RS485 N No Y RS485		number									
N RS485 N No Y RS485		Screen									
N RS485 output N No Y RS485	Υ		N	No	Y	LED display	_	_	_	_	
A1 Contact alarm will alarm value, output high electrical level Alarming out window C2 Alarming out window											
A1 Contact alarm setting W1 Custom setting A1 Factory setting — — — — — — — — — — — — — — — — — — —	N	RS485	N	No	v	DC // 05	_	_	_	_	
A1 alarm setting W1 Custom setting A1 Factory setting — — — — — — — — — — — — — — — — — — —	IN .	output	IN	NO	'	113-103					
A1 alarm setting W1 Custom setting A1 Factory setting — — — — — — — — — — — — — — — — — — —				T		T			1	T	
L1 Alarm method L1 Lower than alarm value, output high electrical level	۸.1		14/1	C	A 1	F4					
L1 Alarm method L1 Lower than alarm value, output high electrical level D25 Accuracy Other requests Other / G	ΑI		VV I	Custom setting	AI	Factory setting	_	_	_	_	
Alarm method L1 alarm value, output high electrical level D25 Accuracy O25 ± 0.25% F.S. O1 ± 0.1% F.S. O1 Specify factory set pressure alarm value // Tag // Tegetheat exchange connector - condenser tube // Heat exchange connector - cooling fin // GM20x1.5 female thread welded adapter // Electrolytic polishing liquid contact portion		setting									
Alarm method L1 alarm value, output high electrical level D25 Accuracy O25 ± 0.25% F.S. O1 ± 0.1% F.S. O1 Specify factory set pressure alarm value // Tag // Tegetheat exchange connector - condenser tube // Heat exchange connector - cooling fin // GM20x1.5 female thread welded adapter // Electrolytic polishing liquid contact portion				Lower than		Higher than					
Other requests A		Alarm	1.1		111		C1	Alarming in	C 2	Alarming out	
Provided the content of the conten	LI	method	LI		н		CI	_	(2		
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/D Other requests				T	1	T				T	
/D Other requests /C Tag /D Specify factory set pressure alarm value /E Heat exchange connector - condenser tube /F Heat exchange connector - cooling fin /G M20x1.5 female thread welded adapter /H G1/2" female thread welded adapter /I Electrolytic polishing liquid contact portion	025	Accuracy	025	± 0.25% F.S.	01	±0.1% F.S.	_	_	_	_	
/D Other requests /C Tag /D Specify factory set pressure alarm value /E Heat exchange connector - condenser tube /F Heat exchange connector - cooling fin /G M20x1.5 female thread welded adapter /H G1/2" female thread welded adapter /I Electrolytic polishing liquid contact portion											
/D											
/G M20x1.5 female thread welded adapter /H G1/2" female thread welded adapter /I Electrolytic polishing liquid contact portion – –	/D										
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	Order eva	mnle DDC I					1 - V - N	_ Δ1 _ l 1 _ Λ25 _	/D		

Order example: <u>DPS-L131- S - 4G - J1 - 0···1MPa - G - 304 - 316 - FN - 1 - Y - N - A1 - L1 - 025 -</u>/D