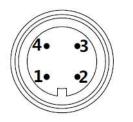
Main specifications

▼ Pressure connection Please refer to pressure connection selection instruction ▼Electrical connection Aviation plug - M12*1 (4-pin) Vertical / Horizontal mounting ▼ Pressure range Min.: 10kPa Max.: 3MPa Please refer to pressure range selection instruction ▼Applicable media Viscous. Paste-like, adhesive, crystallizing, particulate containing and contaminated media ▼Oil filling Silicone oil / Sanitary fluid ▼Operating temperature -40 to 85°C -20 to 70°C (with LCD display) ▼ Storage temperature -40 to 110°C, -40 to 85°C (with LCD display) ▼ Fluid temperature Sanitary fluid filling: -10 to 180°C -10 to 250°C(with heat exchanger) Silicone oil filling: -45 to 205℃ -40 to 300°C(with heat exchanger) ▼Humidity 0-95% ▼ Protection level **IP67** ▼Explosion-proof class Exia II CT4 (GB13, 1139X) ▼ Approval 3A, CE certificate

Aviation plug M12*1



No.	2-wire
1	Power supply+
2	х
3	Key-z
4	Power supply-

Other Specifications

▼ Housing

Stainless steel Waterproof design

- ▼Output Signal 4~20mA (2-wire linearity)
- 4~20mA+HART

▼ Power supply Standard: 10.5-55VDC With HART: 16.5-55VDC

▼Load resistance 0-2119Ω

250-600Ω (HART)

▼Transmission distance

< 1000 meters

- ▼ Power consumption
- ≤500mW@24VDC, 20.8mA
- ▼Insulation resistance
- > 20MQ@100VDC
- ▼ Damping time

Amplifier: 0~100S (adjustable) Startup after power off: ≤6S Normal services after data recovery: ≤31S

▼Accuracy

 $\pm 0.2\%$ / $\pm 0.5\%$ F.S. (@20 $\pm 5^{\circ}$ C) (Including linearity, hysteresis and repeatability)

- ▼ Stability
- ±0.2% F.S./year
- ▼Temperature drift
- ±0.2% F.S./10K (@-20 to 80°C)

▼Vibration effect

Vibration resistance:

- 10g (25-2000Hz)
- Shock resistance: 500g/1ms
- ▼Operating pressure
- Max overpressure 15MPa

▼Weight

About 0.6kg

Flush Diaphragm Sanitary Pressure Transmitter Model: FDPT-858 Introduction

FDPT858 sanitary pressure transmitter is designed for food and pharmaceutical industry, which is suitable for pressure and level measurement or CIP/SIP cleaning and sterilization.





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

- OEM service
- Compact design
- High quality SS316L welded process diaphragm
- Filling fluid comply with hygiene standard
- A variety of international standard process connections are available
- Double diaphragm overload protection structure can easily cope with high overload test
- Isolated air cavity design to prevent condensation and pollution
- Friendly button parameters operation function with high display speed.
- 160 pressure calibration points to assure high measuring precision.
- Roughness of stainless steel surface $Ra \le 0.4 \mu m$, conform to international sterile standard.
- 3A, explosion-proof, CE certificate

Pressure range select instruction

Code	Nominal value	Smallest calibration span	Lower range limit	Upper range limit	Overpressure limit*		
S403G	40kPa	10kPa	-40kPa	40kPa	1Mpa		
S254G	250kPa	25kPa	-100kPa	250kPa	4MPa		
S105G	1MPa	100kPa	-100kPa	1MPa	6MPa		
S305G	3MPa	300kPa	-100kPa	3MPa	15MPa		
The above pressure unit can be converted into kg/cm2, MPa, or kPa. Adjust requirements: lower range value (LRV) and upper range value (URV) can be adjusted within the scope of the upper and lower range limit, minimum measuring range ≤ URV-LRV ≤ maximum measuring range							
* Limit valu	* Limit value of overpressure: depends on the pressure value of the parts with lowest pressure capacity						

Pressure connection select instruction

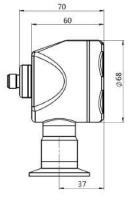
Item	Code	Description
Connection material	4	SS304
	6	SS316
Connection type	NT	Standard connection, medium temperature: -25 to 85°C
	NH	Cooling element connection, medium temperature: -40 to 150°C
Fluid filling	F	Sanitary fluid filling: -10 to 180°C
	S	Silicone oil filling: -45 to 250°C
Diaphragm material	S	SS316L
	Н	Hastelloy C
Pressure connection	K01	Tri-Clamp 1-1/2" (max. measuring range: 2MPa)
specifications	K02	Tri-Clamp 2" (max. measuring range: 2MPa)
	K03	DIN32676 DN32 (max. measuring range: 1.6MPa)
	K04	DIN32676 DN40 (max. measuring range: 1.6MPa)
	K05	DIN32676 DN50 (max. measuring range: 1.6MPa)
	K06	ISO2852 DN38 (max. measuring range: 4MPa)
	K07	ISO2852 DN40 (max. measuring range: 4MPa)
	K08	ISO2852 DN51 (max. measuring range: 2.5MPa)
	K09	DIN11851 DN25 (max. measuring range: 2.5MPa)
	K10	DIN11851 DN40 (max. measuring range: 2.5MPa)
	K11	DIN11851 DN50 (max. measuring range: 2.5MPa)
	K12	SMS DN 1/1/2" (max. measuring range: 2.5MPa)
	K13	SMS DN2" (max. measuring range: 2.5MPa)
	K14	IDF DN 1-1/2" (max. measuring range: 2MPa)
	K15	IDF DN2" (max. measuring range: 2MPa)
	K18	DRD(max. measuring range: 2.5MPa)
	K20	Plug in flush sanitary-clamp (max. measuring range: 2MPa)

Menu function

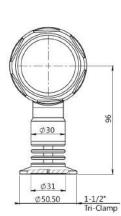
Transmission module	4-20mA+HART: LCD/3 buttor	as on body, remote control HART		
type	4-20mA: LCD/3 buttons on body			
		main screen, percentage and progress	-	
LCD display unit		creen, percentage and progress bar show	-	
		screen, percentage and progress bar sh		
	KPa: Kilopascal	MPa: Mega pascals	bar: Bar	
	psi: Pounds per square inch	mmHg: Millimeter (s) of mercury@0 ℃	mmH2O: Millimeter of water@4°C	
	mH2O: Meter of water@4°C	inH2O: Inches of water@4°C	ftH2O: Feet of water@4°C	
Pressure unit	TORR: Torr	mHg: Meter mercury column@0°C	inHg: Inches of mercury@0°C	
	mbar: Millibar	g/cm2: Gram per square centimeter	kg/cm2: kg per square centimeter	
	Pa: PA	ATM: Standard atmospheric pressure	Mm: Millimeter(Note1)	
	m: Meter(Note1)	Note1: length unit need mark medium density		
Measuring	URV: Upper range value			
menu set	LRV: Lower range value			
Damping time	Units S – setting range: 0-100			
	mA LINER: Linearity			
Analog output type	mA √: Square root			
Alarm signal	ALARM NO: None / ALARM H: 20.8mA / ALARM L: 3.8mA			
Fix output	3.8000mA / 4.0000mA / 8.0000mA / 12.000mA / 16.000mA / 20.000mA / 20.800mA			
	PV=0: Set current output to zero value, used to correct the error caused by static pressure and installation.			
Quick menu	Zero adjustment: 4mA re-rang	ge with pressure		
	Span adjustment: 20mA re-ra			
	Restore factory setting: Restore backup data when error			

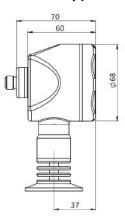
Dimension





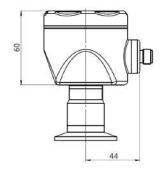
Vertical installation (standard type)





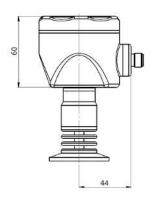
Vertical installation (for high temeprature type)





Horizontal installation (standard type)

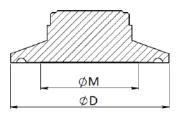




Horizontal installation (for high temperature type)

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Process Connection Dimension



K01-K08

ØD

50.5

64

50.5

50.5

64

50.5

64

øМ

31

42

31

31

42

31

42

42

Standard

DIN11851

DIN11851

DIN11851

Spec.

1-1/2″

2″

DN32

DN40

DN50

DN38

DN40

Standard

Tri-Clamp

Tri-Clamp

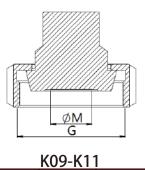
DIN32676

DIN32676

DIN32676

ISO2852

ISO2852



Spec.

DN25

DN40

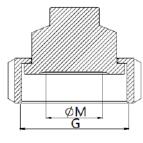
DN50

G

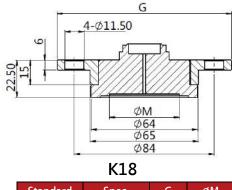
Rd 52*1/6

Rd 65*1/6

Rd 78*1/6

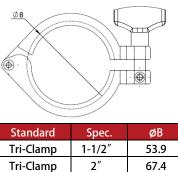


K12-K13						
øМ	Standard	Spec.	G	ØМ		
20	SMS	1-1/2″	Rd 60*1/6	31		
31	SMS	2″	Rd 70*1/6	42		
42						



	IXEO		
Standard	Spec.	G	øМ
DRD	DN50	105	42

Clamp Dimension

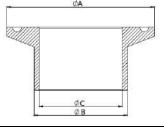


ØB .⊕.		
Standard	Spec.	ØB
Tri-Clamp	Spec. 1-1/2"	53.9
TIC	2″	(7.4

\geq		
	Standard	
)	Tri-Clamp	
5	Tri-Clamp	

Welding adaptor

Normal

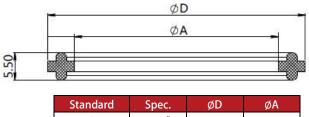


Rd 52*1/6

27

Standard	Spec.	ØA	ØВ	øc
Tri-Clamp	1-1/2″	50.5	38	35.6
Tri-Clamp	2″	64	51	48.6

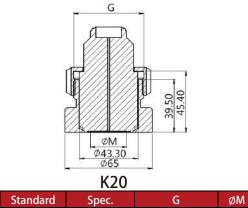
O-ring



Standard	Spec.	ØD	ØA
Tri-Clamp	1-1/2″	50.5	35
Tri-Clamp	2″	64	47.8

ISO2852 DN51 64 ØM G K14-K15

Standard	Spec.	G	øМ		
IDF	1-1/2″	IDF 1-1/2"	31		
IDE	2″	IDF 2"	42		



Standard

Clamp	ווט

How to Order

Item	Parameters	Code	
	Model	FDPT-858	Waterproof pressure transmitter
Sensor	Separator	Code	Detailed specifications as following
	Pressure	S403G	Nominal value: 40kpa
	range code	S254G	Nominal value: 250kpa
		S105G	1MPa
		\$305G	3MPa
Electrical	Separator	Code	Detailed specifications as following
connection			
	Cable length	F1	Stainless steel terminal, aviation plug M12*1 (4-pin) (H2), IP67, vertical mounting
		F2	Stainless steel terminal, aviation plug M12*1 (4-pin) (H2), IP67, horizontal mounting
Output	Separator	Code	Detailed specifications as following
	Output signal	н	4-20mA+HART (2-wire), power supply: 16.5-55VDC
		F	4~20mA two wire, power supply: 10.5-55VDC
	Display	с	LCD display
		A	Without LCD display
Process	Separator	Code	Detailed specifications as following
connection			
	Material	4	SS 304
		6	SS 316
	Connection	NT	Standard connection ,suitable for media temperature: -25 to 85°C
	type	HT	With cooling elements, suitable for media temperature: -40 to 150°C
	Isolation	F	Sanitary filling fluid, Neobee M-20, process temperature:-10 to 180℃
	fluid filling	S	Silicone oil, process temperature: -45 to 205°C
	Isolation	S	SS316L
	diaphragm	Н	Hastelloy C
	material		
	Process	K01	Tri-Clamp 1-1/2", max. measuring range: 2MPa
	connection	К02	Tri-Clamp 2", max. measuring range: 2MPa
	specification	K03	DIN32676, DN32, max. measuring range: 1.6MPa
		К04	DIN32676, DN40, max. measuring range: 1.6MPa
		K05	DIN32676, DN50, max. measuring range: 1.6MPa
		К06	ISO2852, DN38, max. measuring range: 4MPa
		К07	ISO2852, DN40, max. measuring range: 4MPa
		К08	ISO2852, DN51, max. measuring range: 2.5MPa
		К09	DIN11851, DN25, max. measuring range: 2.5MPa
		K10	DIN11851, DN40, max. measuring range: 2.5MPa
		K11	DIN11851, DN50, max. measuring range: 2.5MPa
		K12	SMS DN1-1/2", max. measuring range: 2.5MPa
		K13	SMS DN2", max. measuring range: 2.5MPa
		K14	IDF DN1-1/2", max. measuring range: 2MPa
		K15	IDF DN2", max. measuring range: 2MPa
		K18	DRD, max. measuring range: 2.5MPa
		K20	Plug in tube flush sanitary-clamp, max. measuring range: 2MPa

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Additional option	Separator	Code	Detailed specifications as following
	Accessory	J1	Aviation plug (straighter) with 2m cable, 4-pin, M12*1, IP67
		J2	Aviation plug (elbow) with 2m cable, 4-pin, M12*1, IP67
		G1	1.5" Clamp
		G2	2″ Clamp
		M1	1.5″ O-ring
		M2	2″ O-ring
		Z1	Welding adaptor, Tri-Clamp 1-1/2"
		Z2	Welding adaptor, Tri-Clamp 2"
	Calibration report	Q1	Calibration report provided by our company
	Approvals	I1	Intrinsic safety certificate, Exia II CT4, NEPSI
		F3	CE certificate

Ordering Example: FDPT-858-S105G-F1-F-A-4-NT-F-S-K01+/M1