

## FDP3000-I Input Type

### Summary

FDP3000 single crystal silicon intelligent transmitter. Original imported chip and packaging technology. The smart transmitter can cope with the most demanding industrial environment. The design of multiple structures is sufficient to solve the problem of liquid level measurement in industry.

### Main parameter

Type : Liquid level  
Wetted Materials : SUS304, SUS316, SUS316L  
Diaphragm Material : SUS304, SUS316, SUS316L, Ceramic  
Shell Material : Cast aluminum  
Pressure Range : 2kPa-10MPa  
Output Signal : 4 ~ 20mA+ HART two wire system  
Accuracy :  $\pm 0.1\%$   
Stability :  $\pm 0.2\%$   
Power Supply : 10.5-55VDC  
Electrical Interface : M20\*1.5 , 1/2" NPT  
Surrounding temperature :  $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$   
IP grade : IP67  
Explosion-proof Grade : ExiaIICT4 , ExdIICT6  
Weight : 2.5kg  
Keys : 3pcs outside , 3pcs inside

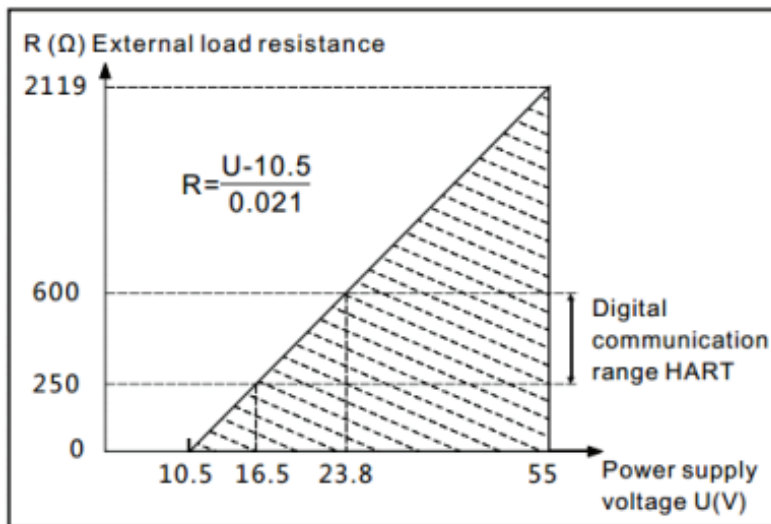


## Range and scope

Nominal Valve	Smallest Calibration Span	Lower Range Limit (LRL)	Upper Range Limit (URL)	Overload Limit
20 kPa	10 kPa	0 kPa	20 kPa	600 kPa
40 kPa	20 kPa	0 kPa	40 kPa	600 kPa
100 kPa	40 kPa	0 kPa	100 kPa	1 MPa
200 kPa	100 kPa	0 kPa	200 kPa	1.8 MPa
400 kPa	200 kPa	0 kPa	400 kPa	2.5 MPa
1 MPa	400 kPa	0 kPa	1 MPa	4 MPa
2 MPa	1 MPa	0 kPa	2 MPa	4 MPa

The unit of the measuring range above can be converted into mH<sub>2</sub>O@ 4 C, mmH<sub>2</sub>O@ 4 C, inH<sub>2</sub>O@ 4 C, mm and mHg@ 0 C.  
Please provide the density of measuring medium if the unit is m, mm.  
Other measuring range is available according to requirements. (1 MPa = 102 mH<sub>2</sub>O@ 4 C.

## Power supply and load requirements



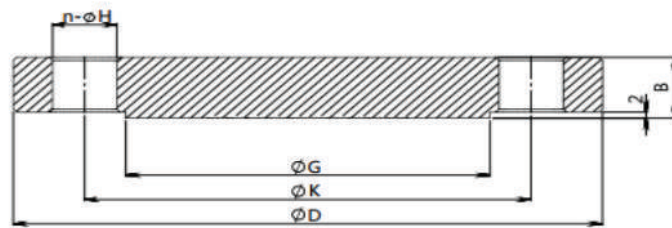
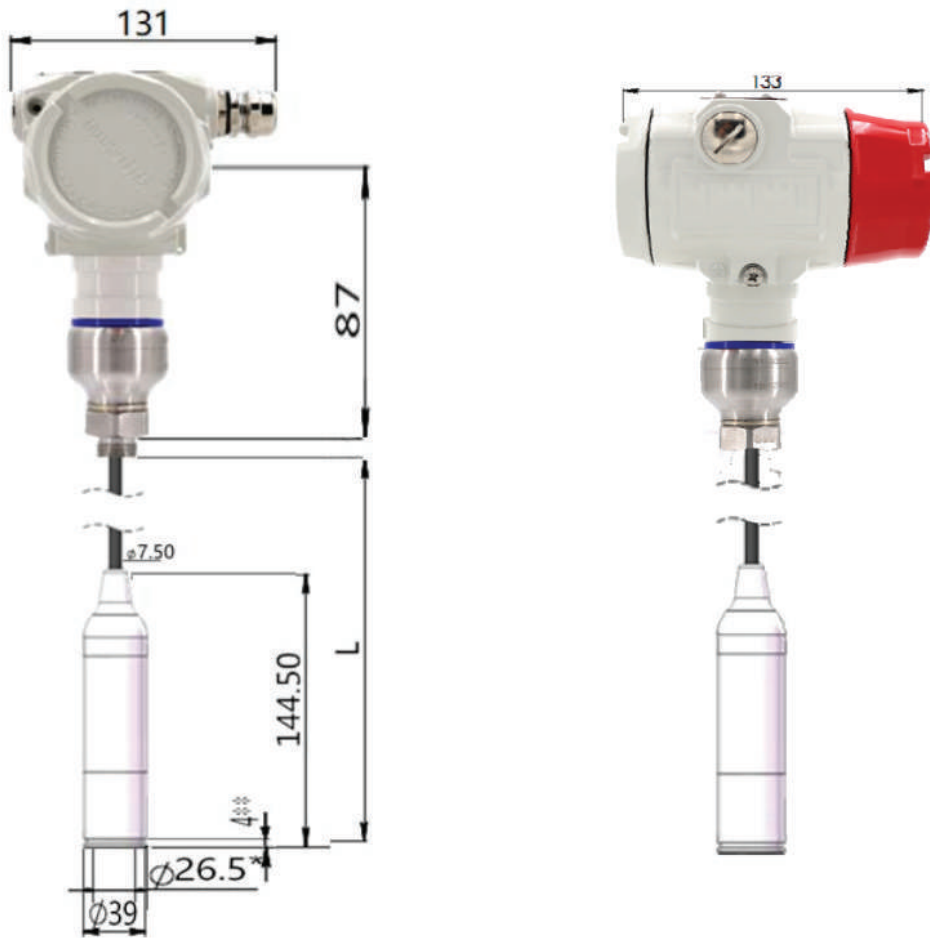
## EMC environment

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

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

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

# Outline dimensional drawing (unit : mm)



Standard	Specification	Outer diameter(ΦD)	Thickness(B)
HG/T20592-2009	DN50PN10-PN40	165	20
HG/T20592-2009	DN25PN10-PN40	115	16
Hole circle(ΦK)	Raised-face diameter(ΦG)	Hole diameter(ΦH)	Number(N)
125	102	18	4
85	68	14	4

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