

2025

Product Selection Guide

Product selection



Application fields: aerospace, semiconductor processing, medical biology, electronic automobile, iron and steel metallurgy, Marine electronics, industrial gas production and other industries.

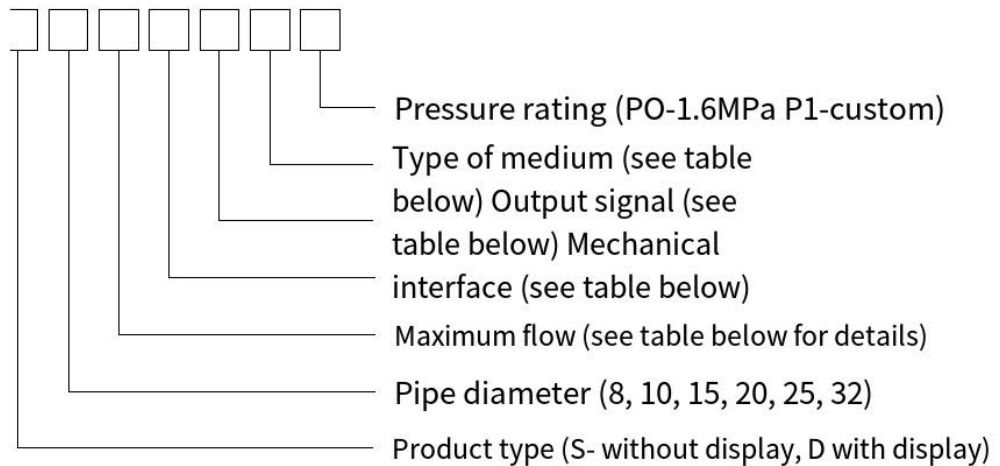


Product features:

- ★ MEMS sensor, fast response speed;
- ★ Zero stability, high precision, good repeatability;
- ★ Wide range ratio, optional flow range;
- ★ Display direction (0°, 90°, 180°, 270°) optional;
- ★ A variety of signal output optional;
- ★ Standard mechanical interface optional;

Product selection

HJYTK



Product Series	Presence or absence display	Pipe diameter	Flow	Mechanical interface	Output signal	Media	Pressure rating
HJYTK	D	10	L200	PN1	N0	AIR	P0

Examples:

Model number: HJYTK-D10L200PN1N0AIRP0

Parameters: HJYTK series, measuring medium: air, measuring range: 2-200L/min, pipe diameter: DN10, mechanical interface :PT3/8 internal thread, output signal: RS485 and 4-20mA, pressure less than 1.6MPa

No display	S- with no display D- with display		
Pipe diameter	8	DN8	Flow measurement range 1.8-180L/min
	10	DN10	Flow measurement range 2.8-280L/min
	15	DN15	Flow measurement range 6-600L/min
	20	DN20	Flow measurement range 10-1000L/min
	25	DN25	Flow measurement range 15-1500L/min
	32	DN32	Flow measurement range 25-2500L/min
Maximum flow	L1 means 1L/min, L200 means 200L/min, and L1500 means 1500L/min		
Mechanical interface	PN	0	PT1/4 Internal thread (DN8)
		1	PT3/8 Internal thread (DN10)
		2	PT1/2 internal thread (DN15)
		3	PT3/4 internal thread (DN20)
		4	PT1 internal thread (DN25)
		5	PT1-1/4 internal thread (DN32)
	GN means G internal thread, NW means NPT external thread, NT is special custom thread; (default PN)		
Output signal	N0 indicates RS485 and 4-20mA (default)		
	N1 means RS485 and 1-5V		
	N2 means RS485 and 4-20mA, pulse		
	N3 means RS485 and 4-20mA, PNP		
Type of media	Measure the type of medium, AIR is air (default), N2 is nitrogen, O2 is oxygen, CO2 is carbon dioxide, MG is mixed gas		
Pressure rating	P0 indicates $\leq 1.6\text{MPa}$ (default), P1 indicates custom type higher pressure rating		

Note: The flow measurement range is based on air measurement.

Air calibration measures the range range of other medium gases

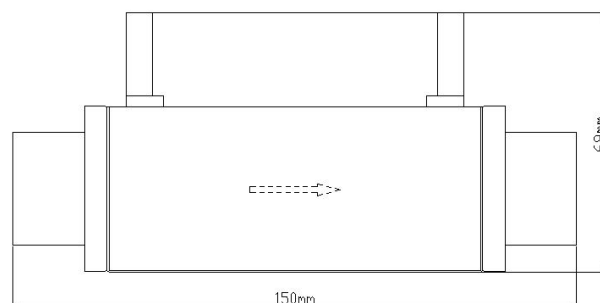
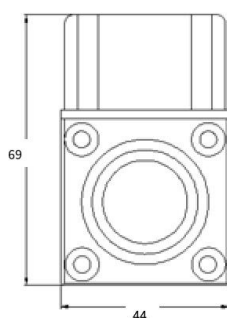
Serial number	Gas	Conversion factor	Percentage of range
1	AIR Air	1.0	100%
2	Oxygen O2	0.9861	98.61%
3	nitrogen	0.994	99.4%
4	Argon AR	1.4066	140.66%
5	Nitric oxide NO	0.9702	97.02%
6	Nitrogen dioxide NO2	0.7366	73.66%
7	Carbon dioxide CO2	0.7326	73.26%
8	Methane CH4	0.7147	71.47%
9	Ethane C2H6	0.4781	47.81%
10	Propane C3H8	0.3459	34.59%

Technical parameters

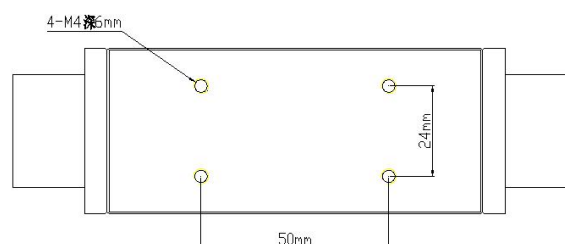
Measurement accuracy	Plus or minus (1.5 + 0.2 FS) %	Working power supply	DC15-24V/100mA
Response time	50-1000 ms	Output mode	4-20mA, pulse (optional)
Zero drift	±20mV	Display format	Instantaneous flow, cumulative flow
Operating temperature	- 10 ~ 55 °C	Operating humidity	<95%RH(no frost, no icing)
Storage temperature	- 10 ~ 65 °C	Communication methods	RS485(Modbus RTU protocol)
Working pressure	1.6 MPa or less	Calibration medium	Air (25°C, 101.325kPa)

Note: The above data is measured under dry air at 25°C, 101.32kPa

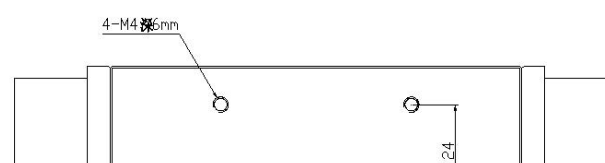
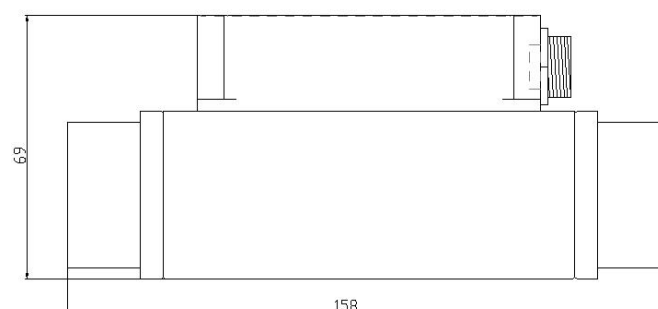
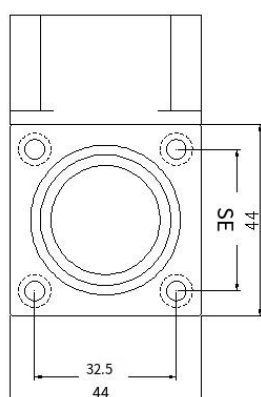
Dimensions of DN8-DN20



Mechanical interface connection dimensions	
DN8	PT1/4 internal thread
DN10	PT3/8 internal thread
DN15	PT1/2 internal thread
DN20	PT3/4 internal thread

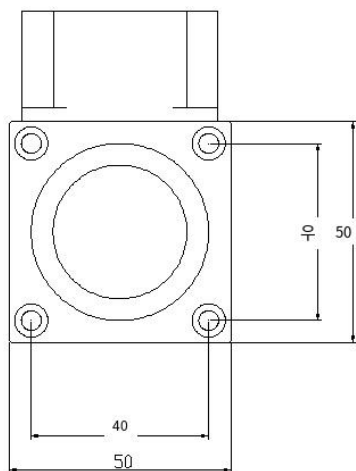


DN25 Overall dimensions

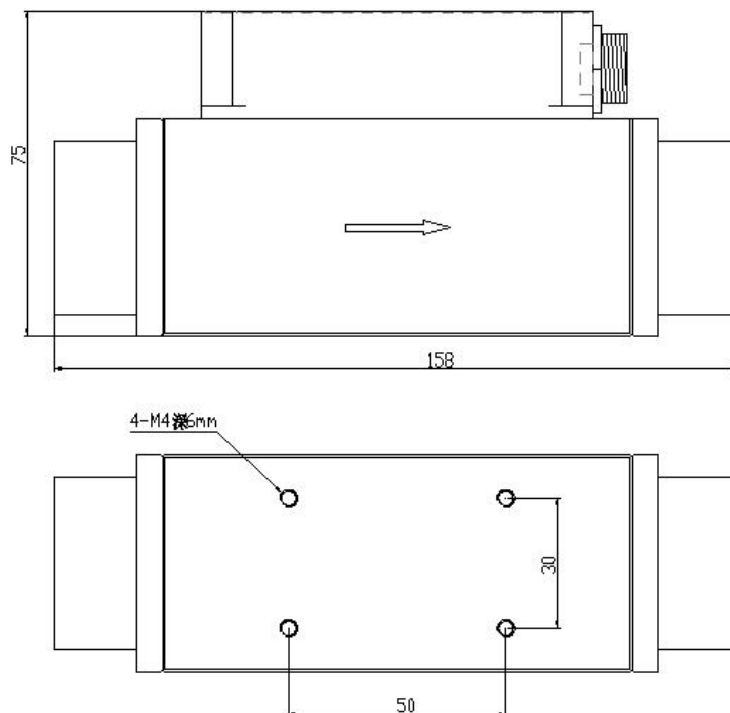


Mechanical interface connection dimensions	
DN25	PT1 internal thread

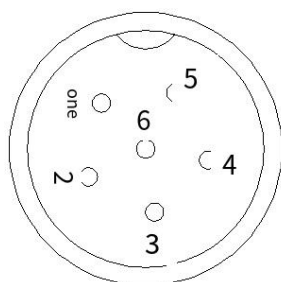
DN32 External dimensions



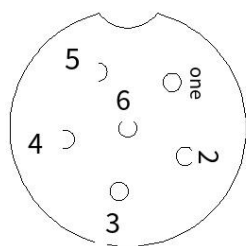
Mechanical interface connection dimensions	
DN32	PT1-1/4 internal thread



Wiring instructions for aviation sockets



The male head is mounted on the housing



Female head 6 cores

6-core aviation wiring instructions	
identification	Meaning
1 -- Red	24V+
2 -- Green	PNP(optional)
3 -- Yellow	RS485 communication output A
4 -- Black	24V-/ Current I-
5 -- Brown	Current I+
6 -- white	RS485 communication output B

HJSL series

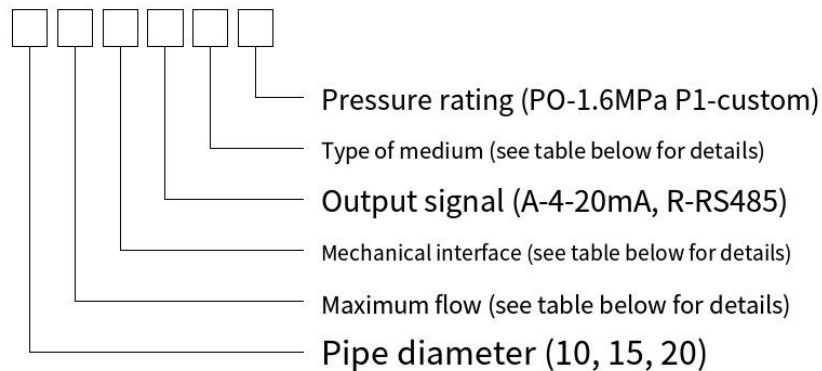


Product features:

- ★ MEMS sensor, fast response speed;
- ★ Zero stability, high precision, good repeatability;
- ★ Wide range ratio, optional flow range;
- ★ LCM display, clear and intuitive;
- ★ A variety of signal output optional;
- ★ Standard mechanical interface optional;

Product selection

HJSL



Product Series	Pipe Diameter	Flow	Mechanical interface	Output signal	Media	Pressure rating
HJSL	10	L200	GW1	A	AIR	P0
For example:						
Pipe diameter	10	DN10	Flow measurement range 2.8-280L/min			
	15	DN15	Flow measurement range 6-600L/min			
	20	DN20	Flow measurement range 10-1000L/min			
Maximum flow	L1 means 1L/min, L200 means 200L/min, and L1500 means 1500L/min					
Mechanical interface	GW	1	G3/8 External thread (DN10)			
		2	G1/2 External thread (DN15)			
		3	G3/4 External thread (DN20)			
	GN means G internal thread, NW means NPT external thread, NT is special custom thread; (default GW)					
Output signal	A means 4-20mA					
	R indicates RS485.					
Type of media	Measure the type of medium, AIR is air (default), N2 is nitrogen, O2 is oxygen, CO2 is carbon dioxide, MG is mixed gas					
Pressure rating	P0 indicates ≤1.6MPa (default), P1 indicates custom type higher pressure rating					

Model number: HJSL-10L200GW1AAIRP0

Parameters: HJSL series, measuring medium: air, measuring range: 2-200L/min, pipe diameter: DN10, mechanical interface :G3/8 external thread, output signal: 4-20mA, pressure less than 1.6MPa

Note: The flow measurement range is based on air measurement.

Air calibration measures the range range of other medium gases

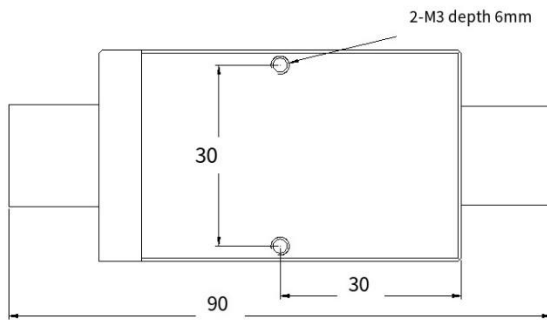
number	Gas	Conversion factor	Percentage of range
1	AIR Air	1.0	100%
2	Oxygen O2	0.9861	98.61%
3	Nitrogen N2	0.994	99.4%
4	Argon AR	1.4066	140.66%
5	Nitric oxide NO	0.9702	97.02%
6	Nitrogen dioxide, NO2	0.7366	73.66%
7	Carbon dioxide CO2	0.7326	73.26%
8	Methane CH4	0.7147	71.47%
9	Ethane C2H6	0.4781	47.81%
10	Propane C3H8	0.3459	34.59%

Technical parameters

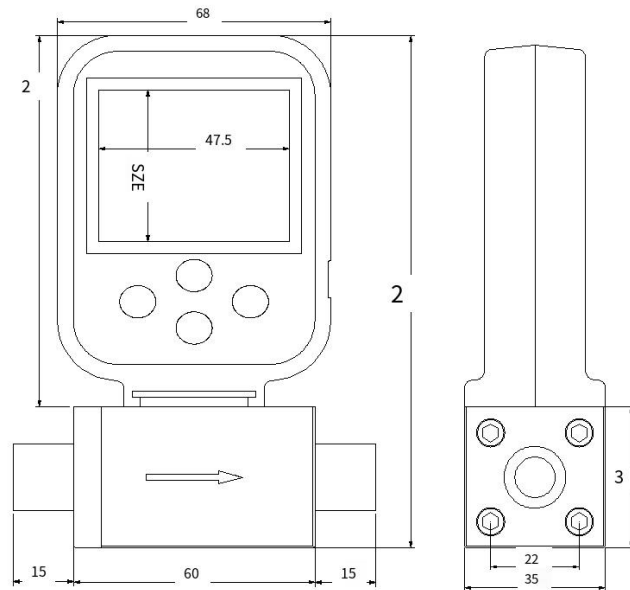
Measurement accuracy	Plus or minus (2.0 + 0.2 FS) %	Working power supply	DC15-24V/100mA
Response time	50-1000 ms	Output mode	4-20mA or RS485
Zero drift	±20mV	Display format	Instantaneous flow, cumulative flow
Operating temperature	- 10 ~ 55 °C	Operating humidity	<95%RH(no frost, no icing)
Storage temperature	- 10 ~ 65 °C	Communication methods	RS485(Modbus RTU protocol)
Working pressure	1.6 MPa or less	Calibration medium	Air (25 ° C, 101.325kPa)

Note: The above data is measured under dry air at 25°C, 101.32kPa

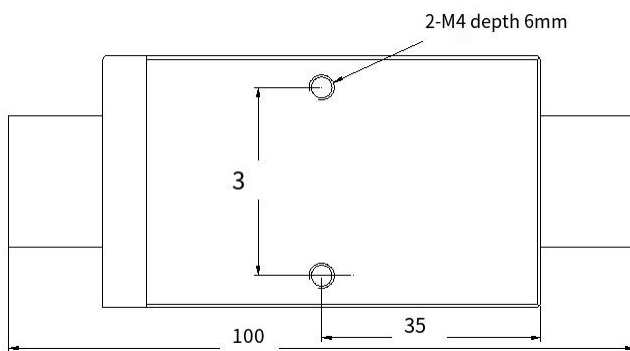
Dimensions of DN10



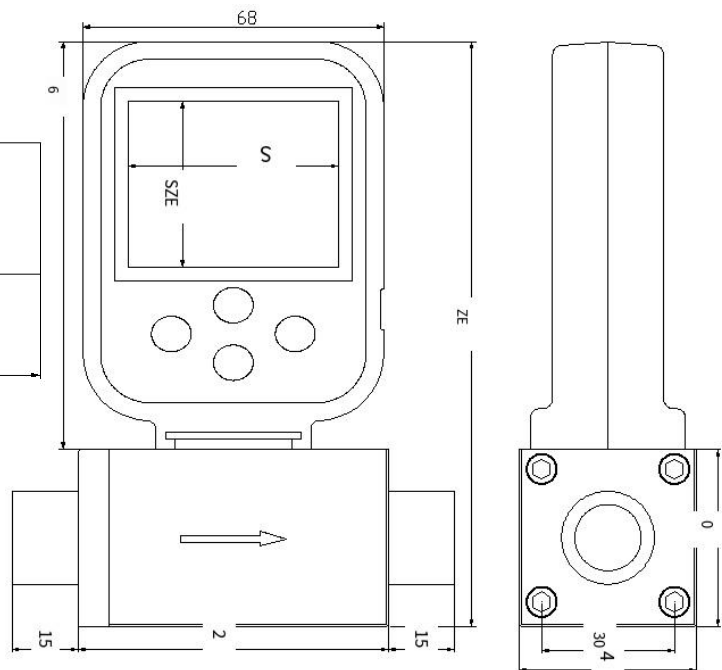
Mechanical interface connection dimensions	
DN10	G3/8 external thread



DN15/DN20 overall dimensions



Mechanical interface connection dimensions	
DN15	G1/2 external thread
DN20	G3/4 external threads



USB Wiring Instructions



MICRO male 4-core USB cable instructions

Identification	Meaning
1 -- Red	24V+
2 -- black	24V-
3 -- white	I+/RS485 communication Output A
4 -- Green	I-/RS485 Communication Output B
Note: Choose between 4-20mA and RS485 output	

HJPT series

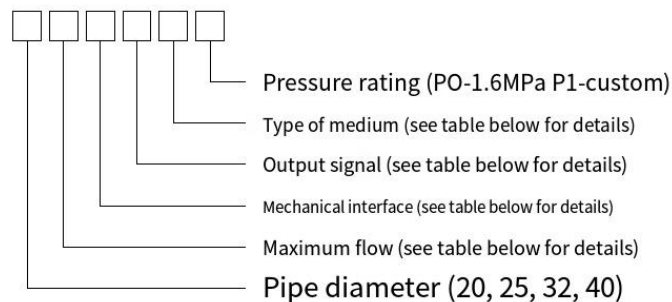


Product features:

- ★ Platinum resistance sensor, stainless steel protective sleeve;
- ★ Zero stability, high precision, good repeatability;
- ★ Wide range ratio, optional flow range;
- ★ Display direction (0°, 180°) optional;
- ★ A variety of signal output optional;
- ★ Standard mechanical interface optional;

Product selection

HJPT



Product Series	Pipe Diameter	Flow	Mechanical interface	Output signal	medium	Pressure rating
HJPT	20	M50	GN3	N0	AIR	P0

Examples:

Model number: HJPT-20M50GN3N0AIRP0

Parameters: HJPT series, measuring medium: air, measuring range: 0.5-50 Nm³/h, pipe diameter: DN20, mechanical interface :G3/4 internal thread, output signal: 4-20mA+RS485, pressure less than 1.6MPa

Pipe diameter	20	DN20	Flow measurement range 0.6-60Nm3/h
	25	DN25	Flow measurement range 1-100Nm3/h
	32	DN32	Flow measurement range 1.6-160Nm3/h
	40	DN40	Flow measurement range 2.4-240Nm3/h
Maximum flow	M60 means 60Nm3/h, M100 means 100Nm3/h, and M40 means 40Nm3/h		
Mechanical interface	GN	3	G3/4 Internal thread (DN20)
		4	G1 Internal thread (DN25)
		5	G1-1/4 internal thread (DN32)
		6	G1-1/2 internal thread (DN40)
	GN means G internal thread (default), NT is a special custom thread;		
Output signal	N0 for RS485 and 4-20mA (default)		
	N1 means RS485 and 1-5V		
	N2 means RS485, 4-20mA, pulse		
Type of media	Measure the type of medium, AIR is air (default), N2 is nitrogen, O2 is oxygen, CO2 is carbon dioxide, MG is mixed gas		
Pressure rating	P0 indicates ≤1.6MPa (default), P1 indicates custom type higher pressure rating		

Note: The flow measurement range is based on air measurement.

Air calibration measures the range range of other medium gases

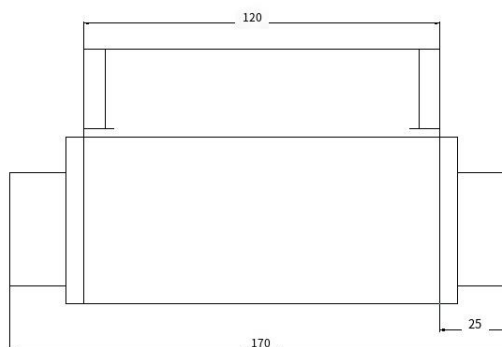
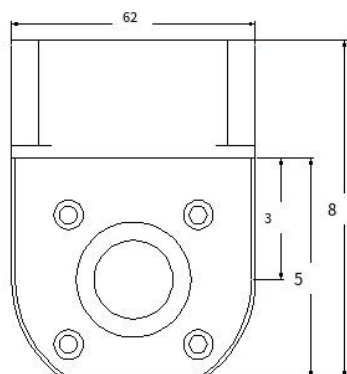
Serial number	Gas	Conversion coefficient	Percentage of range
1	AIR Air	1.0	100%
2	Oxygen O2	0.9861	98.61%
3	Nitrogen N2	0.994	99.4%
4	Argon AR	1.4066	140.66%
5	Nitric oxide NO	0.9702	97.02%
6	Nitrogen dioxide, NO2	0.7366	73.66%
7	Carbon dioxide CO2	0.7326	73.26%
8	Methane CH4	0.7147	71.47%
9	Ethane C2H6	0.4781	47.81%
10	Propane C3H8	0.3459	34.59%

Technical parameters

Measurement accuracy	Plus or minus (1.5 + 0.2 FS) %	Working power supply	DC24V/1A
Response time	1-5 s	Output mode	4-20mA\RS485
Zero drift	±20mV	Display format	Instantaneous flow, cumulative flow
Operating temperature	- 10 ~ 55 °C	Operating humidity	<95%RH(no frost, no icing)
Storage temperature	- 10 ~ 65 °C	Communication methods	RS485(Modbus RTU protocol)
Working pressure	1.6 MPa or less	Calibration medium	Air (25 ° C, 101.325kPa)

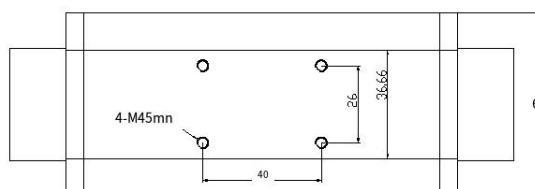
Note: The above data is measured under dry air at 25°C, 101.32kPa

Dimensions of DN20/DN25

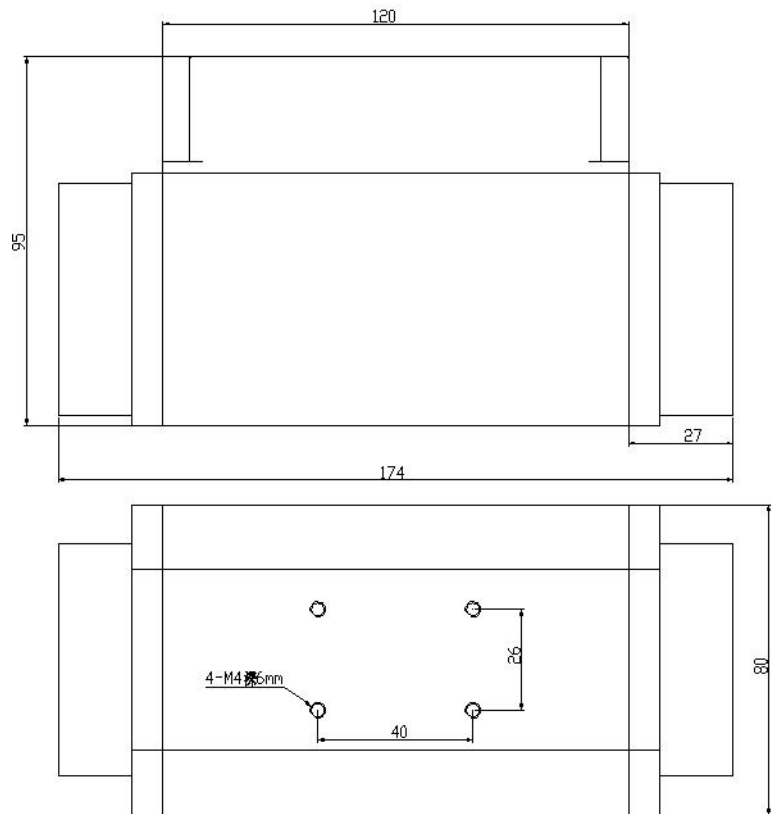
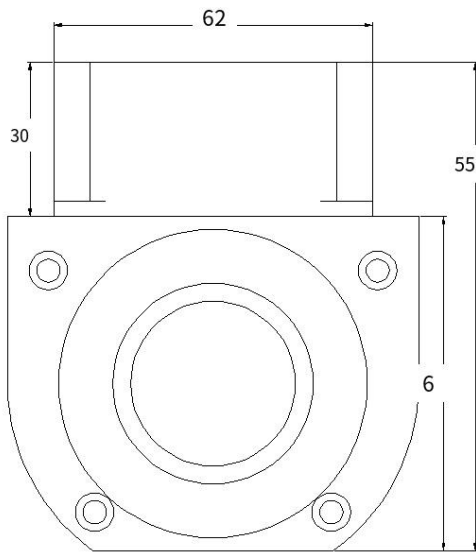


Mechanical interface connection dimensions

DN20	G3/4 internal thread
DN25	G1 internal thread



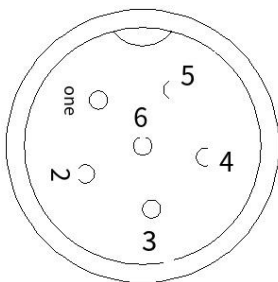
DN32/DN40 Overall dimensions



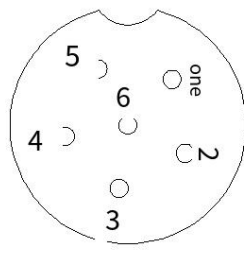
Mechanical interface connection dimensions

DN32	G1-1/4 external thread
DN40	G1-1/2 external threads

Wiring instructions for aviation sockets



The male head is mounted on the housing



Female head 6 cores

6-core aviation wiring instructions

Signage	Meaning
1 -- Red	24V+
2 -- Green	Pulse, PNP(optional)
3 -- Yellow	RS485 communication output A
4 -- Black	24V-/ Current I-
5 -- Brown	Current I+
6 -- white	RS485 communication output B

HJFC series

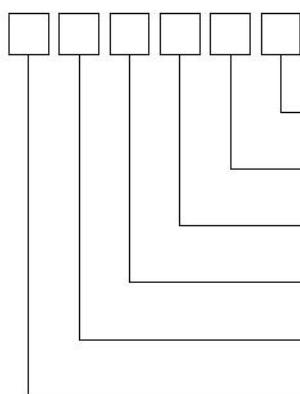


Product features:

- ★ MEMS sensor, fast response speed;
- ★ Zero stability, high precision, good repeatability;
- ★ Wide range ratio, optional flow range;
- ★ Can input set flow rate, valve response speed is fast;
- ★ A variety of signal output optional;
- ★ Standard mechanical interface optional;

Product selection

HJFC



Media type (see table below)

Output signal (see table below for details)

Input signal (see table below)

Mechanical interface (see table below for details)

Flow range (see table below for details)

Body material (FO-anodic aluminum F1-304 F2-316)

Product Series	Body material	Flow range	Mechanical interface	Input signal	Output signal	Media
HJFC	F0	S0	GN0	P0	N0	AIR

Examples:

Model number: HJFC-F0S0GN0P0N0AIR

Parameters: HJFC series, measuring medium: air, measuring range :1~100SCCM, mechanical interface :G3/4 internal thread, input control signal: 4-20mA, output signal: 4-20mA+RS485, pressure less than 1.0MPa

Body material	F0-anodized aluminum, F1-304, F2-316	
Flow range	S0	1~100SCCM
	S1	5~500SCCM
	S2	10~1000SCCM
	S3	0.1 ~ 10 SLPM
	S4	0.3 ~ 30 SLPM
	S5	0.5 ~ 50 SLPM
	S6	1~100SLPM
	S7	2~200SLPM
	S8	3~ 300SLPM
Mechanical interface	GN0	G1/4 internal thread
	PT2	PT1/2 internal thread
	NT is a special custom thread;	
Input signal	P0	4-20mA (default)
	P1	1-5V
	P2	RS485
Output signal	N0	RS485 and 4-20mA (default)
	N1	RS485 and 1-5V
	N2	RS485, 4-20mA, pulse
Type of media	Measure the type of medium, AIR is air (default), N2 is nitrogen, O2 is oxygen, CO2 is carbon dioxide, MG is mixed gas	

Note: The flow measurement range is based on air measurement.

Air calibration measures the range range of other medium gases

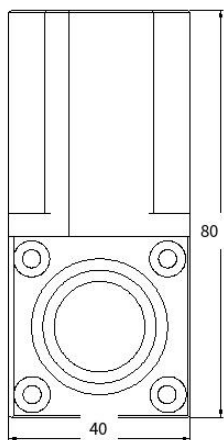
Serial number	Gas	Conversion factor	Percentage of range
1	AIR Air	1.0	100%
2	Oxygen O2	0.9861	98.61%
3	Nitrogen N2	0.994	99.4%
4	Argon AR	1.4066	140.66%
5	Nitric oxide NO	0.9702	97.02%
6	Nitrogen dioxide NO2	0.7366	73.66%
7	Carbon dioxide CO2	0.7326	73.26%
8	Methane CH4	0.7147	71.47%
9	Ethane C2H6	0.4781	47.81%
10	Propane C3H8	0.3459	34.59%

Technical parameters

Measurement accuracy	Plus or minus (1.5 + 0.2 FS) %	Working power supply	DC24V/200mA
Response time	1-5 s	Output mode	4-20mA\RS485
Zero drift	±20mV	Display format	Instantaneous flow, cumulative flow
Operating temperature	- 10 ~ 55 °C	Operating humidity	<95%RH(no frost, no icing)
Storage temperature	- 10 ~ 65 °C	Communication methods	RS485(Modbus RTU protocol)
Working pressure	1.0 MPa or less	Calibration medium	Air (25 ° C, 101.325kPa)

Note: The above data is measured under dry air at 25°C, 101.32kPa

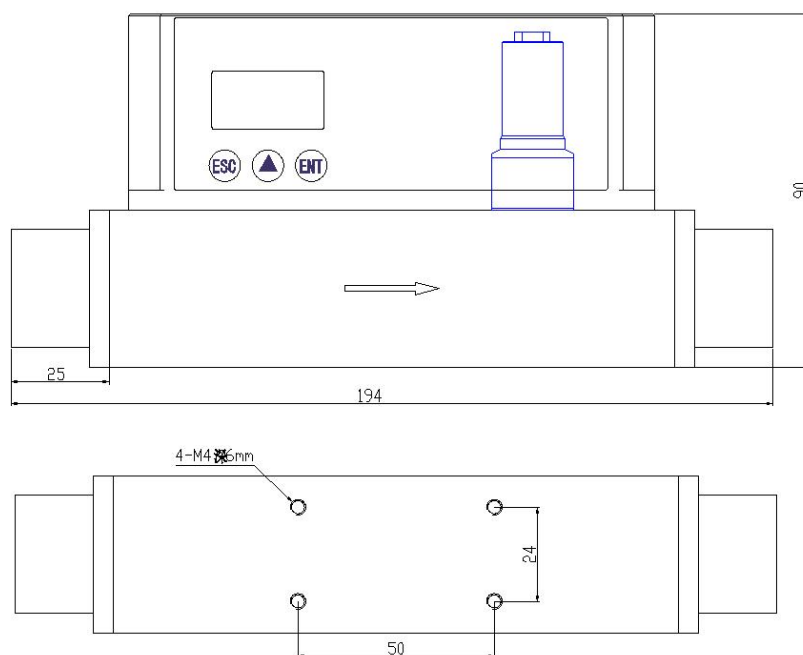
Dimensions of HJFC-XXS0~S5



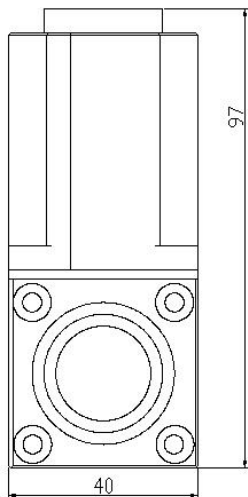
Dimensions of
mechanical interface
connection

G1/4 internal thread

PT1/2 internal thread



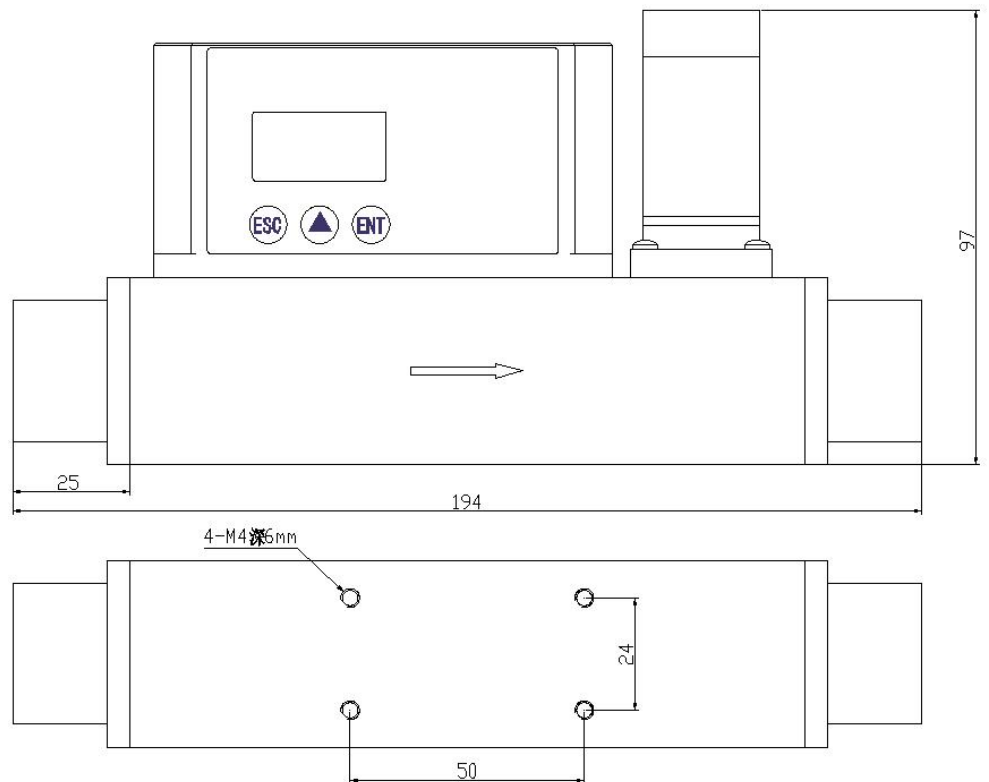
HJFC-XXS6 Overall dimensions



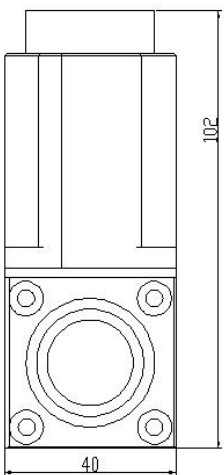
Dimensions of
mechanical interface
connection

G1/4 internal thread

PT1/2 internal thread



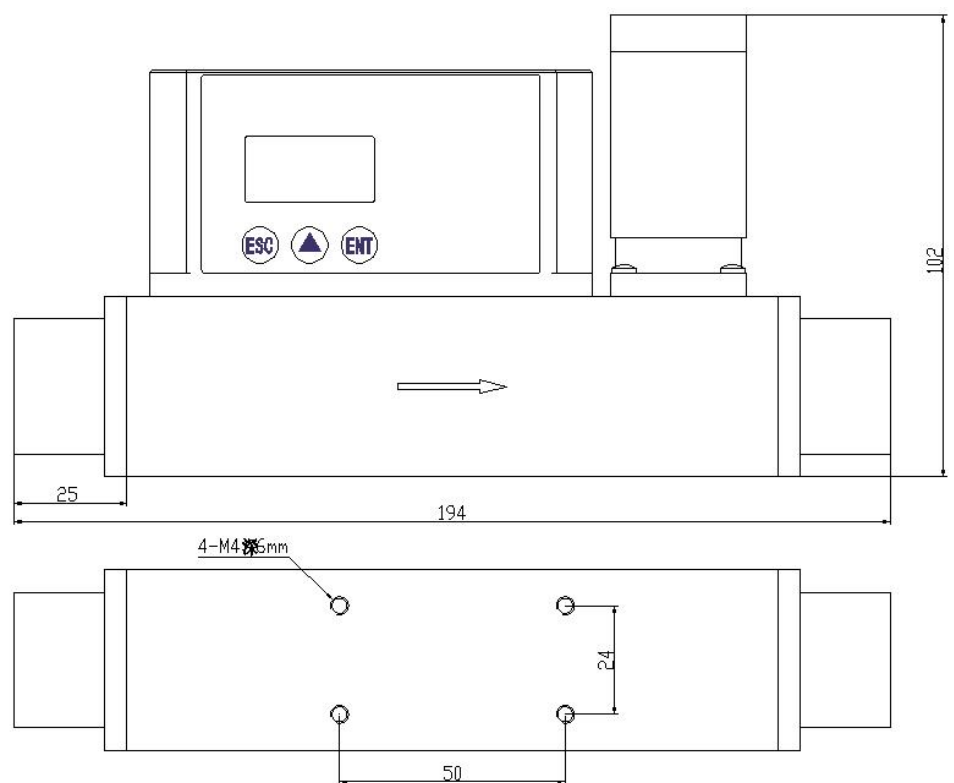
HJFC-XXS7/S8 Overall dimensions



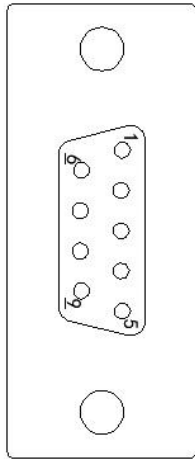
Dimensions of
mechanical interface
connection

G1/4 internal thread

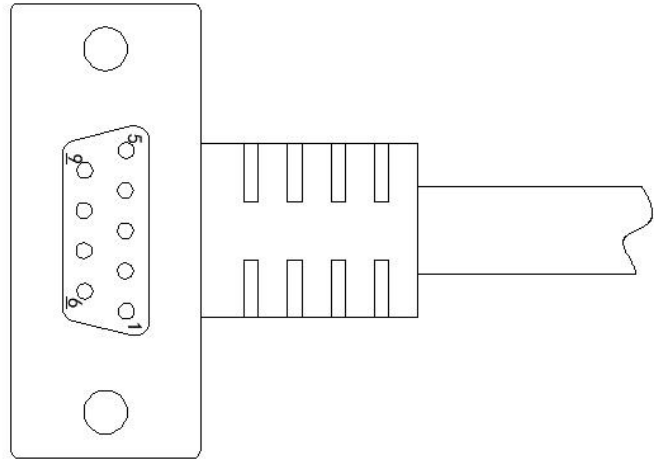
PT1/2 internal thread



DB9 9 Core wire description



The male head is mounted on the housing



Female head 9 cores

DB9 Interface Definition	
PIN	Meaning
1 - Black	4-20mA current I+
2 - Brown	RS485 communication output B
3 -- Red	RS485 Communication Output A
4 - Orange	Spare
5 - Yellow	4-20mA current I-
6 - Green	Spare
7 - Blue	GND power negative
8 - Gray	Spare
9 - white	Spare