

FLOWMETER CATALOG



COMPANY PROFILE

For about 20 years, Holykell has been supplying customers all over the world with accurate and reliable flow measurement devices, mainly including electromagnetic flow meters, ultrasonic flow meters, vortex flow meters, turbine flow meters, mass flow meters and so on that are capable of measuring liquid, air, gas, steam and fluid.



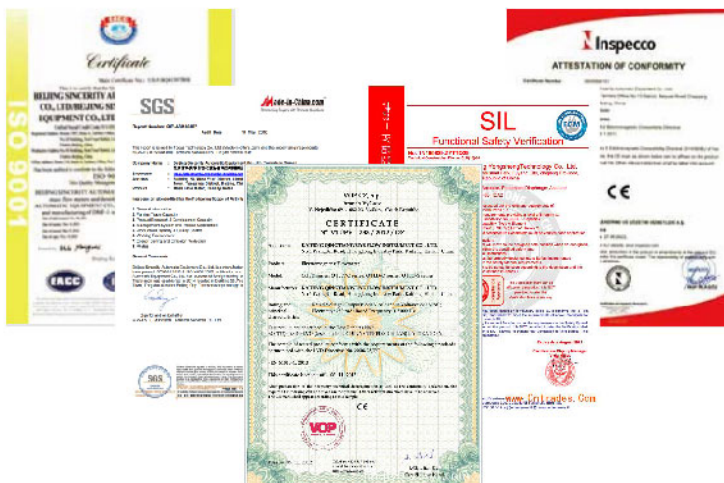
As a leading manufacturer of pressure, level and flow measurement devices, we have established a 3000m² factory and a 1000m² modern office in Changsha City, Hunan Province, and a 5000m² factory in Xi'an City, Gansu Province. We implement IOS 9001:2015 standards and have obtained completed certificates to meet different requirements of customers.



CERTIFICATES

CE  SIL

 **SGS**



ELECTROMAGNETIC FLOW METER

PRODUCT FEATURES

Electromagnetic flow meters have high accuracy without any moving parts, an ideal solution for applications where low-pressure drop and low maintenance are required.

APPLICATION

- Chemical industry
- Wastewater treatment
- Metallurgy
- Light industry
- Food industry
- Environmental protection



Electromagnetic Flow Meter

Suitable pipe sizes	DN10-2000mm
Accuracy	0.5%
Maximum flow speed	15m/s
Output	4~20mA, 0~10mA, Pulse+4-20mA, RS485 Modbus/RS232
Power supply	AC220V 50HZ/24Vdc/12Vdc/3.3V battery
Liner material	Soft rubber, Polychloroprene rubber, Polyurethane rubber, Teflon, F46 poly perfluoro ethylene ally(4880, 4880E can choose the last one only)
Electrode material	Stainless steel containing molybdenum, Hastelloy B alloy, Hastelloy C alloy, Titanium, Tantalum, Platinum
IP rating	IP65, IP68 optional for 4800, 4800E; IP65 for 4880E



4800E

4800 Split type



4800E Integrated type



4880E Sanitary type



Wireless Electromagnetic Flow Meter

Suitable pipe sizes	DN10-1600mm
Accuracy	0.5%
Flow range	0-15 m/sec
Wireless network mode	GPRS/4G/NB-iot/Lora
Communication mode	RS485 (Modbus),GPRS, CDMA
Power supply	220V/battery optional for 4811, battery supply for 4811-B
Working temperature	-25 ~ 50°C
IP rating	IP68

4811 Wireless dual power



4811-B Battery power



Insertion Electromagnetic Flow Meter

Suitable pipe sizes	DN300-3000mm
Accuracy	2.5%
Flow range	0.01-10 m/sec
Communication mode	Modbus(RS485/RS232), Hart
Output	4-20mA, pulse, frequency
Power supply	220VAC, 24Vdc/12Vdc, 3.6Vdc
Electrode material	316L,Titanium,Tantalum,Hastelloy C,Platinum iridium alloy
Medium temperature	0 ~ 70°C
IP rating	IP68 for sensor, IP65/IP67 for transmitter



4801

ULTRASONIC FLOW METER

PRODUCT FEATURES

Ultrasonic flow meters generally consists of two types: in-line and clamp-on ultrasonic flow meters. Clamp-on type adopts a non-invasive measurement method, no pipe cut-off for installation. Both types are easy to install and maintain, suitable for small to large pipe diameters.

APPLICATION

- Chemical industry
- Wastewater treatment
- Medicine industry
- Laboratory
- Electric power
- Light industry



Ultrasonic Flow Meter

Suitable pipe sizes	DN32-1000mm(UF2000B,UF2000SW,UF2000SS,UF2000SD,UF2000M,PUF2000); DN15mm-6000mm(UF2000-F); DN20mm-6000mm(HUF2000H)
Accuracy	±1%;±0.5%
Output	4-20mA;RS232;RS485 Modbus;Pulse
Power supply	8~36Vdc or AC85~264V
Power Consumption	1.5W

Note: Flow is measured through the combination of host and sensors.

HOST OPTIONS

UF2000B Wall-mounted



UF2000SW Wall-mounted



HUF2000H Handheld type



UF2000M Module type



PUF2000 Printer type



UF2000SS Panel-mounted



UF2000SD Explosion proof



UF2000F Fixed mounting



UF2000F In-line



SENSOR OPTIONS

Flow Transducer	Picture	Model	Measuring range	Temperature
Clamp on		TS-2 (small)	DN32-65	-30 ~ 90°C
		TM-1 (medium)	DN80-400	
		TL-1 (large)	DN450-1000	
High temp. Clamp on		TS-2-HT (small)	DN32-65	-30 ~ 160°C
		TM-1-HT (medium)	DN80-400	
		TL-1-HT (large)	DN450-1000	
Insertion		TC-1 (standard)	DN50-6000	-30 ~ 160°C
		TC-2 (extended)		
		TP-1 (parallel)	DN200-6000	
Inline		Standard	DN15-1000	-30 ~ 160°C
Temp. Transducer	Picture	Model	Measuring range	Temperature
Clamp on		CT-1	≥ DN50	-40 ~ 160°C
Insertion		TCT-1	≥ DN50	-40 ~ 160°C
Insertion under pressure		PCT-1	≥ DN50	-40 ~ 160°C
Insertion small sizes		SCT-1	< DN50	-40 ~ 160°C

Gas Ultrasonic Flow Meter

Suitable pipe sizes	DN25-300mm
Accuracy	1.0%
Output	4-20mA;RS485;alarm
Power supply	3.6V lithium battery,5~24V
Power Consumption	≤1.5mW for battery, ≤1W for external power



HGUF

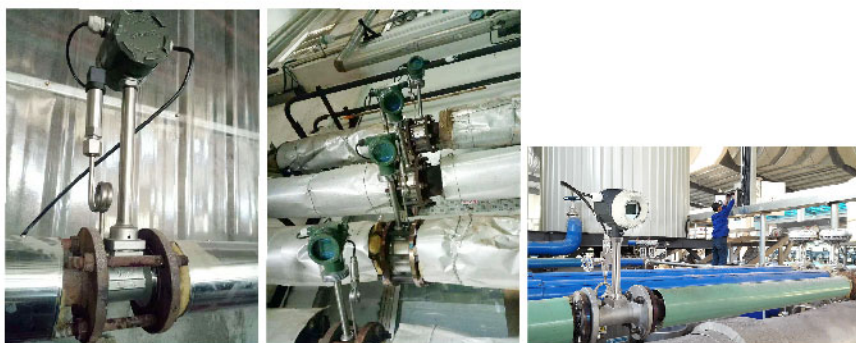
VORTEX FLOW METER

PRODUCT FEATURES

Vortex flow meters can measure both liquids, steam and gases. They are easy to install without impulse lines and can withstand high process pressures and temperatures, easily sterilized, widely used in various processes.

APPLICATION

- Chemical industry
- Metallurgy
- Electric power
- Power and heating
- Light industry



Model type	Liquid Vortex Flow Meter	Gas Vortex Flow Meter
	 HLF	 HGVF
Measuring medium	Liquids	Gases
Suitable pipe sizes	DN15-300mm	DN15-300mm
Accuracy	1.5%;1%	±1.5%
Output	4-20mA; pulse;RS485 Modbus	4-20mA; pulse;Hart;RS485
Power supply	24Vdc or 24Vdc+battery	24Vdc±15% or battery
Medium temperature	-20°C~350°C	-40°C~+250°C, -40°C~+350°C

TURBINE FLOW METER

PRODUCT FEATURES

Turbine flow meters feature easy installation and maintenance, with fast response and good repeatability, capable of measuring low flow rates.

APPLICATION

- Chemical industry
- Metallurgy
- Electric power
- Power and heating
- Light industry
- Medicine industry



Model type	Liquid Vortex Flow Meter	Small diameter pipe type	Gas Vortex Flow Meter
			
Measuring medium	Liquids	Liquids	Gases
Suitable pipe sizes	DN4-200mm	DN1.0-10 mm	DN25-DN400
Accuracy	0.5%;1%	0.5%~1.0%	1.5%;1%
Output	4-20mA;Pulse;RS485	4~20mA	4-20mA/RS485;pulse;HART; GPRS
Power supply	24Vdc or battery	12-36Vdc	24Vdc±15%;battery
Medium temperature	-20°C~110°C	-20°C~110°C	-30°C~+80°C

VARIOUS TYPES AVAILABLE

Clamp-on type



High pressure clamp-on type



Anti-corrosive PE type



Pulse type



MASS FLOW METER

PRODUCT FEATURES

Mass flow meters directly measure mass flow instead of volume flow and can display medium temperature and density. They feature extremely accuracy, low maintenance and can measure high viscosity fluids.

APPLICATION

- Petrochemical industry
- Metallurgy
- Electric power
- Food and beverage
- Medicine industry
- Science research



HQF Mass Flow Meter

Suitable pipe sizes	DN3-250mm
Accuracy	$\pm 0.5\%$, $\pm 0.2\%$, $\pm 0.1\%$
Output	4~20mA; RS485; MODBUS, Hart
Power supply	24Vdc (220V AC or 24Vdc and AC by customized)
Medium temperature	-50°C ~ +150°C

U-shaped



V-shaped



Triangle-shaped



HTMF Thermal Mass Flow Meter

Suitable pipe sizes	DN10 ~ 4000mm
Accuracy	$\pm 1 \sim 2.5\%$
Output	4-20mA;pulse;RS485;HART
Power supply	All-in-one (24Vdc or AC220V $\leq$ 18W);Split type (AC220V $\leq$ 19W)

Single flange type



Double flange type



Thread connection type



Insertion type



FLOW METER FOR OPEN CHANNELS AND RIVERS

PRODUCT FEATURES

Open channel flow meters adopt a contactless measuring mode, unaffected by the vapor, steam, temperature, floating, sediments, or weather, with high accuracy and reliability.

APPLICATION

- Agricultural irrigation
- Environment protection
- Flood prevention
- Rivers and reservoirs
- Underground piping
- Open channels



UFL9000 Open Channel Ultrasonic Flow Meter

Range	0.1l/s ~ 99999.99m ³ /h
Accuracy	level, 0.25%/0.5%; Flow, 1% ~ 5%
Output	4 ~ 20mA; RS485; RS232; MODBUS
Power supply	220V AC+15%, 50Hz/24Vdc 120mA



HRF600/600S Radar Flow Meter

Radar frequency	24GHz; 60GHz
Measuring range	7m (HRF600S); 40m (HRF600)
Velocity measurement accuracy	±0.01m/s
Level measurement accuracy	±1mm (HRF600S); ±3mm (HRF600)
Output:	RS485; RS232; 4~20mA; 433MHz; 4G; NB-IoT
Power supply:	7-32Vdc; 5.5-32Vdc



ROTAMETER

PRODUCT FEATURES

Rotameter is a new type of flow meter that has simple structure, easy installation and maintenance, suitable for small flow rates and various media in complex and harsh environment.

APPLICATION

- Petrochemical industry
- Electric power
- Food and beverage
- Light industry
- Medicine industry
- Science research



Model type	HDR Dual Rotor Flow Meter	HTWF Tri-rotor Flow Meter	HTR Metal Tube Rotor Flow Meter
			
Suitable pipe sizes	DN40-250mm	DN15-500mm	DN15-150mm
Measuring range	5-340 m ³ /h	1.6,2.5,4.0,6.3,10MPa(pressure)	Liquid:1.0 ~ 150000l/h; Gas:0.05 ~ 3000m ³ /h
Accuracy	0.5%;0.2%	0.1%;0.2%;0.5%	0.5%; 1.0%
Output	4-20mA;Pulse;RS485	4 ~ 20mA,1-5V, 4 ~ 20mA +HART protocol, MODBUS,RS232,RS485	4 ~ 20mA;HART
Power supply	24Vdc;battery	12Vdc;24Vdc	12 ~ 36Vdc

HGRF Plastic Tube Rotor Flow Meter



Long Flange



Short Flange



Flange Connection

Model	HGRF-15 (L/h)	HGRF-20 (L/h)	HGRF-25 (L/h)	HGRF-32 (m3/h)	HGRF-40 (m3/h)	HGRF-50 (m3/h)	HGRF-65 (m3/h)	HGRF-80 (m3/h)	HGRF-100 (m3/h)	HGRF-125 (m3/h)	HGRF-130 (m3/h)
Measuring range	5~50	40~400	60~600	0.4~4	0.4~4	0.4~4	5~25	5~25	8~50	15~150	15~150
	6~60	60~600	100~1000	0.6~6	0.6~6	0.6~6	8~40	8~40	12~60	22~180	22~180
	10~100	100~1000	160~1600	1~10	1~10	1~10	12~60	12~60	14~90	25~200	25~200
	16~160		250~2500		1.2~12	1.6~16			18~120		
	25~250		300~3000								
	40~400										
	60~600										
	80~800										
	100~1000										
Type	Long tube Short tube						Short tube		Short tube Flange connection		
Accuracy	±4%										
Temp.	0-60℃										
Pressure	≤0.6MPa										

HLZM Glass Tube Flow Meter



Model	Range				Screw Thread	Accuracy	Allowed medium		Size (mm)								
	MI/min (Liquid)	L/min (Gas)					Temp °C	Pressure Mpa	A	B	C	D	E	F			
4T	6-60	0.05-0.5	0.1-1	0.2-2	Direct Ø6	±4%	0-60°C	≤1	94	27	21	14	14	70			
	8-80	0.25-2.5	0.6-6	1-4													
	30-120	1-5	1-10	1-12													
	40-400																
6T	6-60	0.1-0.8	0.1-1.5	0.1-1	(F)1/4"BSP												
	10-70GPH	0.3-3	0.4-4	0.5-8													
	16-160	1-5	1-12	2-10													
	25-250	2-20	3-15	3-30													
	80-400	4-20	5-25	6-30													
	100-500	10-60	10-70	10-100													
	100-600	0.05-0.25m3/h															
	200-800	0.04-0.4 m3/h															
	100-1000																
8T	2.5-25LPH	0.16-1.6 m3/h															
	5-45LPH	0.1-1 m3/h															
	6-60LPH	0.2-2 m3/h															

HSF Electronic Fuel Flow Meter

Working pressure	6bar
Accuracy	1%
Flow range	HSF25,10L/min-100L/min;
	HSF40,40L/min-280L/min;
	HSF60,60L/min-500L/min



HTF Target Flow Meter

Suitable pipe sizes	DN15-2000mm
Accuracy	±0.2%,±0.5%,±1.0%,±1.5%,±2.5%
Output	4~20mA;RS485/RS232; HART
Power supply	battery;24Vdc
Medium temperature	-196°C ~ +450°C



VF Volumetric Flow Meter

Suitable pipe sizes	DN40-150mm
Accuracy	±0.2%
Max pressure	10 bar/150PSI
Measure unit	Liter/Gallon



HRF Roots Flow Meter

Suitable pipe sizes	DN25-150mm
Accuracy	0.5%, 0.2%
Temperature	-10~60°C
Pressure	0.6,1.0,1.6,2.5,4.0MPa



HOPF Orifice Plate Flow Meter

Suitable pipe sizes	DN25-2600mm
Accuracy	0.5%, 1.5%
Ambient temperature	-20°C ~ 55°C
Pressure	≤40;≤10



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