

LIQUID TURBINE FLOW METER

PRODUCT DESCRIPTION

KLWGY series turbine flow sensor (hereinafter referred to as sensor) is a speed-type flow meter based on the principle of torque balance. It is widely used in petroleum, chemical industry, metallurgy, water supply, papermaking and other industries. It is an ideal meter for flow measurement and energy saving.

The sensor and the display instrument are used together, suitable for measuring the liquid in the closed pipe with stainless steel 1Cr18Ni9Ti, 2Cr13 and corundum Al_2O_3 , which has no corrosive effect and no fiber, particle and other impurities. If it is matched with the display instrument with special function, it can also be used for quantitative control and over-alarm. The explosion-proof type of this product can be used in the environment with explosion danger.

The sensor is suitable for medium with a viscosity less than $5 \times 10^{-6} m^2/s$ at the operating temperature. For liquids with a viscosity greater than $5 \times 10^{-6} m^2/s$, the sensor should be used after the actual liquid calibration.

If the user needs a special type of sensor, the order can be negotiated.

If the explosion-proof sensor is needed, it shall be explained in the order.



TYPE : Flange ends
 SIZE : 4-300mm
 END CONN. : EN1092-1 PN16
 OPTIONS : DIN , AISI, JIS



TYPE : Thread ends
 SIZE : 15-50mm
 END CONN. : BSP male
 OPTIONS : NPT/ISO

PARAMETERS

	KLWGY	□□□	□	□	□	Explain
Type	KLWGY					Basic model, +5-24DCV power supply

	KLWGYA					Two-wire system current output, remote transmission
	KLWGYB					Battery powered field display
	KLWGYC					field display/Two-wire system current output
	KLWGYD					RS485 communication output
Diameter	4					4mm,general turbine flow range 0.04~0.25 m ³ /h
	6					6mm,general turbine flow range 0.1~0.6m ³ /h
	10					10mm,general turbine flow range 0.2~1.2 m ³ /h
	12					12mm,general turbine flow range 0.2~2m ³ /h
	15					15mm,general turbine flow range 0.6~6m ³ /h
	20					20mm,general turbine flow range 0.7~7m ³ /h
	25					25mm,general turbine flow range 1~10m ³ /h
	32					32mm,general turbine flow range 1.5~15 m ³ /h
	40					40mm, general turbine flow range 2~20m ³ /h
	50					50mm, general turbine flow range 4~40m ³ /h
	65					65mm, general turbine flow range 7~70m ³ /h
	80					80mm, general turbine flow range 10~100 m ³ /h
	100					100mm, general turbine flow range 20~200 m ³ /h
	125					125mm, general turbine flow range 25~250 m ³ /h
	150					150mm, general turbine flow range 30~300 m ³ /h
	200					200mm, general turbine flow range 80~800 m ³ /h
Anti-explosion						No mark, non - explosive type
		B				Anti-explosion
Accuracy class			A			Accuracy 0.5 grade
			B			Accuracy 1 grade

The DN4 -- DN25 calibre sensor is threaded connection with a maximum working pressure of 16Mpa;

The DN32 -- DN200 calibre sensor is flanged connection with a maximum working pressure of 16Mpa;

DN4 - DN10 calibre sensors with front and rear straight sections.

DN15 and above calibre sensors can be matched with front and rear straight sections.

(2) medium temperature: $-20 \sim +120^{\circ}\text{C}$.

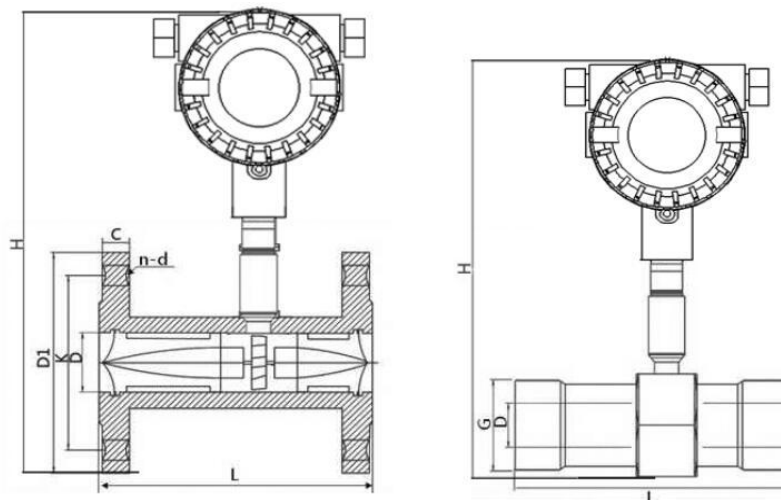
(3) environment temperature: $-20 \sim +65^{\circ}\text{C}$.

(4) service voltage: voltage: $+6-24\text{VDC}$, current: $\leq 10\text{mA}$.

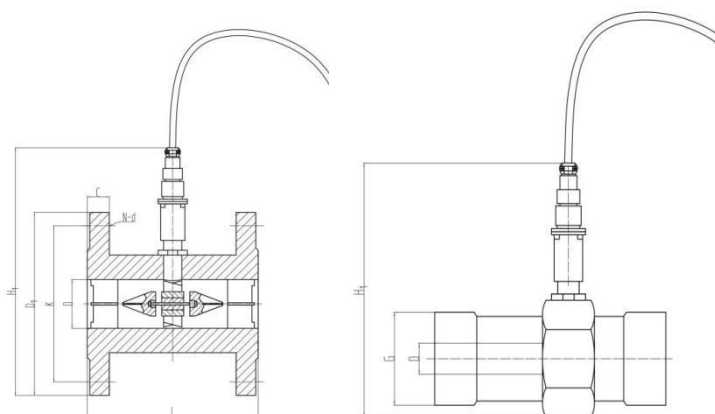
The battery power supply is 3.6V/0.3mA.485 communication current increased by 0.6mA.

(5) Transmission distance: the distance from the sensor to the display instrument can be up to 1000m.

PRODUCT DIMENSIONS



Schematic diagram of LWYB/C/D flowmeter structure



Schematic diagram of LWGY sensor structure

Nominal diameter	1.6MPa	Flange connection				Body Length L	Threaded connection British Standard G
(mm)	Flange outer diameter	Center distance K	Aperture d	Number of holes n	Thickness C		
DN4	90	60	14	4	14	225	G1/2
DN6	90	60	14	4	14	225	G1/2
DN8	90	60	14	4	14	345	G1/2
DN10	90	60	14	4	14	345	G1/2
DN12	95	65	14	4	14	65	G3/4
DN15	95	65	14	4	14	75	G1
DN20	105	75	14	4	16	85	G1
DN25	115	85	14	4	16	100	G1 1/4
DN32	140	100	18	4	18	120	G1 1/2
DN40	150	110	18	4	18	140	G2
DN50	165	125	18	4	20	150	G2 1/2
DN65	185	145	18	4	20	175	G3
DN80	200	160	18	8	20	200	G3 1/2
DN100	220	180	18	8	22	220	G4 1/2
DN125	250	210	18	8	22	250	
DN150	285	240	22	8	24	300	
DN200	340	295	22	12	26	360	
DN250	405	355	26	12	28	400	
DN300	460	410	26	12	32	500	

Flange executive standard: HG/T 20592-20635-2009