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LTD General Electron Flow Meter



LTD Serials General Electron Flowmeter (hereafter call flowmeter), is a precise flowmeter to measure the flow of liquid in the tube...

Description

- Introduction
- Technical Datum
- Outline Dimension
- Model Selection

General

LTD Serials General Electron Flowmeter (hereafter call flowmeter), is a precise flowmeter to measure the flow of liquid in the tube. This flowmeter is a patent right product, which is independently researched and developed by the technicians in our company based on innovation and improvement of foreign latest advanced technology. It has the characteristic of high accuracy, compact size, wide flow range, strong anti-jammed, sands proof, anti-jamming, high-temperature, resistance, anti-corrosive, low power consumer, local LCD display, far transmit etc. It is widely used in petroleum, chemistry, metallurgy, light industry, especially applied in measurement of watery oil in oil field and measurement of low-viscosity sewage, finished oil and edible oil. The flowmeter is composed of four parts: body, core, sensor and meter head. The core is easily taken out from body, which is very convenient for the periodical maintenance. Applied with advanced electron technology and particular design, it remains high stability and anti-disturbance. It can be applied in explosion situation with the anti-explosion grade of Exd II BT4. For local display, this flowmeter is charged by inner lithium battery, which can continuously work for three years at least.

Patent No.: ZL-99223288.0

Feature

1. High Accuracy, Large Turndown Ratio
2. Anti-High Temperature and Erosion-proof
3. Anti-impurity
4. Well Interchange
5. Local instant flow and total flow LCD display, distant signal transmission ;



6. Measurable medium: Water, waste water, low viscosity oil, etc.

Principle

When the liquid flows through the flowmeter, it pushes the wheel running. Within a certain flow range, the circling speed of wheel is direct proportional to the volume of the flow. When wheel running, the magnetic stainless slice of wheel will approach the loop of sensor and periodically change resistance of loop to result the emerge of impulse signal which is direct proportional with volume at the moment through the change of amount of loop's magnetism. This signal, after analyzed and amplified, will display instant and total flow separately.

Ambient Condition

Ambient Temp. : -20°C~+55°C

Relative humidity: ≤85%

Atmosphere pressure: 86KPa-106KPa

Picture 1



1、Flow range、accuracy (Water & Oil)

Table 1

DN (mm)	Normal flow range (m ³ /h)				
	0.5% Oil	1% Oil	1% Water	1.5% Water	2.5% Water
8	0.15~0.7	0.1~0.8	0.15	0.1~0.8	0.08~0.8
15	0.2~1	0.15~1.2	0.2~1	0.15~1.2	0.12~1.5
20	0.3~1.5	0.3~3	0.3~1.5	0.3~3	0.2~4
25	1~5	0.6~6	1~5	0.6~6	0.5~7
40	3~15	2~15	3~15	2~15	1.5~15
50	4~20	2.5~25	4~20	2.5~25	2~25
80	/	/	10~80	10~100	6~100
100	/	/	30~200	20~200	18~250
150	/	/	50~300	40~400	30~400
200	/	/	100~500	60~600	70~700
250	/	/	200~1000	150~1500	120~1500
300	/	/	300~1500	250~2000	150~2000

3. Fluid Temp. : -40°C~+80°C, 0°C~+150°C, 0°C~+300°C ;

4. Working Pressure : 1.6, 2.5, 4.0, 6.3, 16, 25, 32, 42(MPa) ;

5. Pressure Loss : For DN8~DN50<0.01MPa、

For DN80~DN300<0.03MPa ;

6. Anti-explosion Grade : Exd II BT4 ;

7. Output Signal : Pulse, 4~20mA Current Output or RS485

Straight Type Outline Dimension

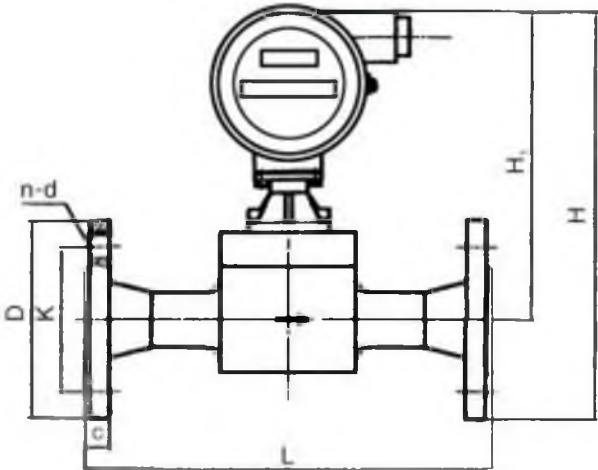
(See Picture 2 and Table 3)

Table 2

DN (mm)	Nom inal Pressure (M Pa)	L	H	H ₁	D	K	n	d	c	W eight (kg)	Note
8	1.6, 2.5	180	280	232	95	65	4	14	16	4.5	
15	1.6, 2.5	180	280	232	95	65	4	14	16	4.5	
20	1.6~ 4.0	225	335	280	105	75	4	14	16	5.5	
25	1.6~ 4.0	270	340	280	115	85	4	14	16	8	
	16	270	340	280	140	100	4	23	28	17	
40	1.6~ 4.0	300	350	270	150	110	4	18	18	12	
	6.3	300	350	270	170	125	4	23	24	14	
	16	350	350	270	175	125	4	27	32	25	
	25	350	350	270	180	124	4	30	32	27	
	42	350	350	270	205	146	4	33	44.5	30	
50	1.6~ 4.0	378	350	270	165	125	4	18	20	14	
	6.3	378	360	270	180	135	4	23	26	16	
	16	320	375	270	215	165	8	25	36	30	
	25	320	375	270	215	165	8	26	38.5	32	
	42	320	375	270	235	171.5	8	30	51	34	
80	16	300	370	270	200	160	8	18	20	15	
	2.5	300	370	270	200	160	8	18	22		
	4.0	300	285	270	215	160	8	18	24		
	6.3	300	380	270	220	170	8	23	30	23	
100	1.6	350	405	295	220	180	8	18	20	18	
	2.5	350	410	295	230	190	8	23	24		
150	1.6	350	468	325	285	240	8	23	22	24	
	2.5	350	475	325	300	250	8	26	28		
200	1.6	350	515	345	340	295	12	23	24	50	
	2.5	350	525	345	360	310	12	26	30		
250	1.6	400	573	370	405	355	12	26	26	70	
	2.5	400	583	370	425	370	12	30	32		
300	1.6	450	630	400	460	410	12	26	28	95	
	2.5	450	643	400	485	430	12	30	36		

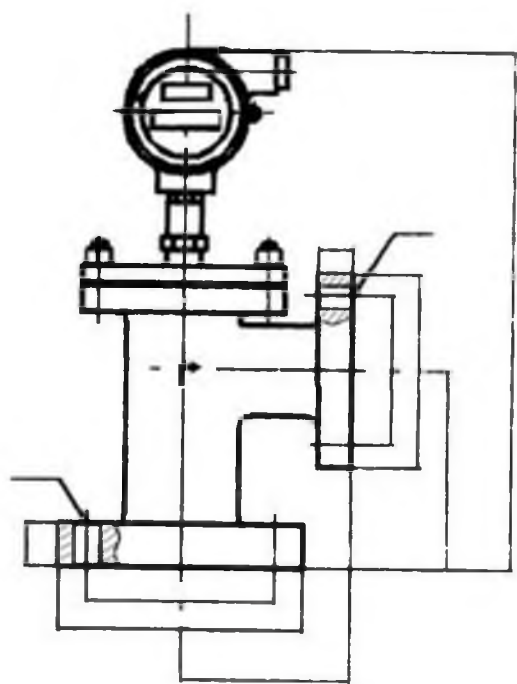
Note: We can be custom made the flow meter according to the requirement of the customer.

Straight Type Outline Dimension
(See Picture 2 and Table 3)



Picture 2

Corner Type Outline Dimension
 (See Picture 3 and Table 4)



Note: We can customize the flowmeter according to the requirement of the customer.

Stainless Steel Type Outline Dimension
 (See Picture 2 and Table 4)

Table 4

DN (mm)	PN (M Pa)	L	H	H ₁	D	k	n	d	C	W eight (kg)	Note:
15	1.6, 2.5	150	280	232	95	65	4	14	16	4.5	
20		150	335	280	105	75	4	14	16	4.5	
25		150	340	280	115	85	4	14	16	6	
40		150	350	270	150	110	4	18	18	8	
50		230	350	270	165	125	4	18	20	12	
80		225	370	270	200	160	8	18	20	15	
100	1.6	250	405	295	220	180	8	18	20	18	
150		300	468	325	285	240	8	23	22	24	
200		350	515	345	340	295	12	23	24	50	
250		400	573	370	405	355	12	26	26	70	
300		450	630	400	460	410	12	26	28	95	

Note: We can custom-made the flowmeter according to the requirement of the customer.

Model Selection

Type		1	2	3	4	5	6	7	8	Note:
		DN	Structure	Nominal Diameter	Material	Explosion	Temp.	Output Signal	Accuracy	
LTD	—									General Electron Flow meter
		8								DN: 8mm
		15								DN: 15mm
		20								DN: 20mm
		25								DN: 25mm
		40								DN: 40mm
		50								DN: 50mm
		80								DN: 80mm
		100								DN: 100mm
		150								DN: 150mm
		200								DN: 200mm
		250								DN: 250mm
		300								DN: 300mm
		Z								Straight Connection Type
		J								Corner Connection Type
				1.6						Nominal Pressure: 1.6MPa
				2.5						Nominal Pressure: 2.5MPa
				4.0						Nominal Pressure: 4.0MPa
				6.3						Nominal Pressure: 6.3MPa
				16						Nominal Pressure: 16MPa
				25						Nominal Pressure: 25MPa
				32						Nominal Pressure: 32MPa
				42						Nominal Pressure: 42MPa
				G						Cast Steel
				SS304						304 Stainless Steel
				SS316						316 Stainless Steel
					A					General Type
					B					Anti-explosion: Exd II B I4
						1				Ambient Temp.: -40°C ~ +80°C
						2				Ambient Temp.: 0°C ~ +150°C
						3				Ambient Temp.: 0°C ~ +200°C
							F			Standard Pulse
							I			4~20mA Output
								05		Accuracy: 0.5%
								10		Accuracy: 1.0%
								15		Accuracy: 1.5%
								20		Accuracy: 2.0%

Example: LTD-50Z6.3SS304A2I1.0

Note :

LTD General Electron Flowmeter, Nominal

Diameter: 50mm, Straight Type, Nominal

Pressure: 6.3MPa, 304 Stainless Steel, General Type, Ambient

Temp.: -40°C ~ +80°C, 4~20mA Output, Accuracy: 1.0%.

Ordering Information:

1. Nominal Diameter: DN _____ mm;
2. Fluid Pressure : Max. _____ Normal _____ Min. _____ MPa;
3. Fluid Temp. : _____ °C;
4. Fluid Name : _____;
5. Fluid Density : _____ g/cm³;
6. Flow Range : Max. _____ Normal _____ Min. _____ m³/h(kg/h);
7. Output Signal : ☐ Standard Pulse Output ☐ 4~20mA Current Output ☐ RS-485 Output
8. Accuracy : ☐ 2.0%, ☐ 1.5%, ☐ 1.0%, ☐ 0.5%

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