KOMETER

KTM-800 Series

Electromagnetic Flow meter with Incomparable Performance

FEATURE

- NRTL - UL 61010-1, CSA-C22.2
- CE - LVD(2014/35/EC), EMC(2014/30/EU), RoHS(2011/65/EU)
- TRCU - TP TC(004/2011), TP TC(020/2011)
- Capable of measuring flows in both directions
- No maintenance is necessary because no driving parts, mpediments, or wear.
- PFA or PTFE liners with high chemically durability is used
- High durability to most of corrosive or abrasive fluids
- Able to apply various electrodes to the sensor
- Provides superb stability and accuracy for a long time
- Applicable to fluids with low conductivity
- Housing material can be chosen

APPLICATIONS

▶ Chemical and Other Process Industries
- Injecting fibric products with adhesiveness
- Emulsified liquid including latex and emulsion.

▶ Food and Beverage
- Hygienic blending, injection, and quantitative distribution
- Cream and dairy products (e.g. fat, milk, cheese, yogurt with particles of fruit)

▶ Mineral and Mining
- Similar in use to a cement

▶ Water resources
- Water mixed with fat, oil, and grease

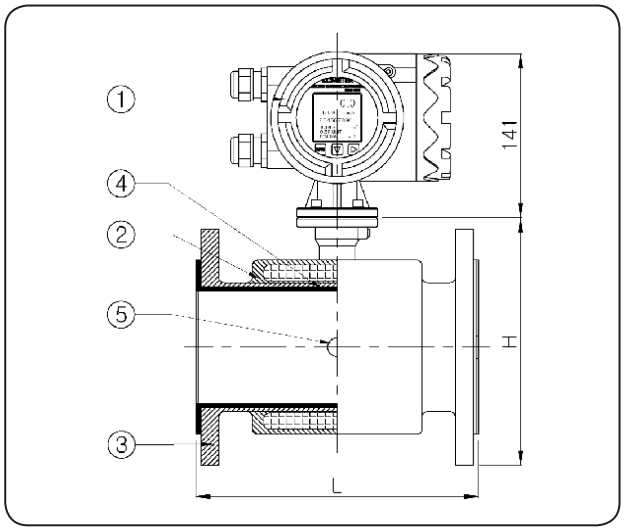
▶ Paper business
- Fibric products in chemically aggressive nature

▶ Pharmaceutical Industry

KTM-800 General Specifications

Size	10A (3/8") - 2000A (80")
Process Connection	Flange type - Standard JIS10K RF (Option. ANSI 150#, DIN 16 bar)
Measuring Range	0.028 m^3/h – 113040.0 m^3/h
Flow Velocity	0.1 m/s – 10 m/s
Accuracy	±0.2 % R.D (1 m/s ~ 10 m/s)
Fluid Temperature	PTFE (-10 ℃ ~ 160 ℃) Hard rubber (-10 ℃ ~ 70 ℃) Ceramic (-10 ℃ ~ 150 ℃) - Option
Ambient Temperature	-10 ℃ ~ 60 ℃
Conductivity	5 μs / cm 이상
Power Supply	AC 85-250 V (50~60) Hz DC 24 V – (Option) Battery 4EA - 3.6 V (Option), Battery Life 1 year
Power Consumption	15 VA
Display	LCD Display Flowrate : 5-digit Display Total : 9-digit Display / With Back light
Output	Analog : DC 4-20 mA Pulse : DC (8~30) V (Open collector pulse)Digital : RS-485
	Digital : RS-485, HART
Protection Class	IP67

STRUCTURAL DRAWING



STANDARD MATERIAL

No.	Description	Material	
		Normal	Option
1	Indicator	CAST ALUMINUM	
2	Housing	CARBON STEEL	SUS304
3	Flange	CARBON STEEL	SUS304
4	Lining	PFA(PTFE), Hard Rubber	
5	Electrode	316LSS	Platinum Titanium Tantalum Hasteloy-C

TYPE SPECIFICATION CODE

KTM - 800	-	□□□□	-	□	-	□	-	□	Specification	10 ~ 65 mm	80 ~ 200 mm
		0010 ~ 2000							Meter size - Catalog Reference		
									<Electrode Material>		
				S					316L Stainless Steel	○	○
				T					Ti (Titanium)	△	△
				P					Pt-Ir (Platinum / Iridium)	△	△
				A					Ta (Tantalum)	△	△
				H					Hastelloy-C	△	△
									<Lining & Sealing Material>		
						T			PTFE PFA	○	△
						H			Hard rubber	-	○
									<Grounding ring Material>		
								S	316 Stainless steel	○	○
								O	316L Stainless steel	△	△
								T	Ti (Titanium)	△	△
								P	Pt-Ir (Platinum / Iridium)	△	-
								A	Ta (Tantalum)	△	-
								H	Hastelloy-C	△	△

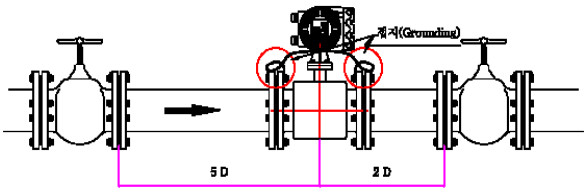
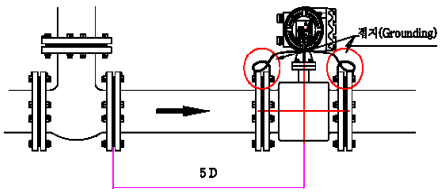
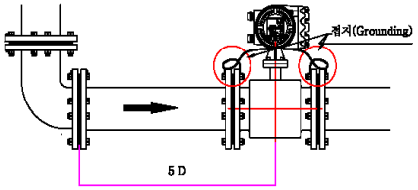
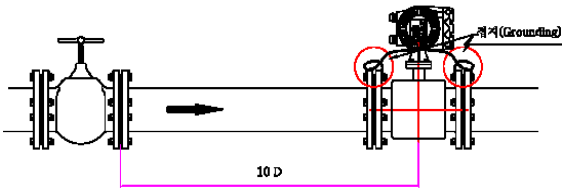
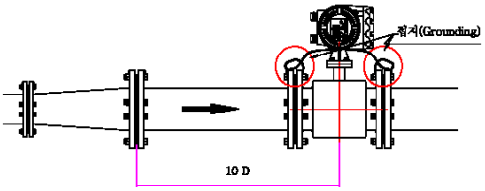
○ : Standard △ : Option - : Not Available

FLOW RANGES & DIMENSIONS

Size		Flow range (m^3/h)		Dimensions (mm)		Weight (kg)	
		0.1 (m/s)	10 (m/s)	L	H	KTM-800	KTM-900
10A	3/8B	0.028	2.826	200	130	6	4
15A	1/2B	0.063	6.358	200	132.5	6	4
20A	3/4B	0.113	11.304	200	137.5	6	4
25A	1B	0.176	17.662	200	145	7	5
32A	1-1/4B	0.289	28.938	200	162.5	9	7
40A	1-1/2B	0.452	45.216	200	172.5	10	8
50A	2B	0.706	70.650	200	187.5	12	10
65A	2-1/2B	1.194	119.398	200	202.5	17	15
80A	3B	1.808	180.864	200	220	17	15
100A	4B	2.82	282.60	250	230	22	20
125A	5B	4.41	441.56	250	270	24	22
150A	6B	6.35	635.85	300	302.5	35	33
200A	8B	11.30	1130.40	350	352.5	45	43
250A	10B	17.66	1766.25	400	407.5	84	82
300A	12B	25.43	2543.40	500	460	102	100
350A	14B	34.61	3461.85	500	517.5	123	121
400A	16B	45.21	4521.60	600	572.5	147	145
450A	18B	57.22	5722.65	600	622.5	212	207
500A	20B	70.6	7065.0	600	675	229	210
600A	24B	101.7	10173.6	600	745	252	250
700A	28B	138.4	13847.4	700	892	352	350
800A	32B	180.8	18086.4	800	1002.5	462	460
1000A	40B	282.6	28260.0	1000	1182.5	690	680
1200A	48B	406.9	40964.4	1200	1397.5	787	782
1400A	56B	553.8	55389.6	1400	1610	1260	1252
1600A	64B	723.4	72345.6	1600	1810	1500	1552
1800A	72B	915.6	92562.4	1800	2017.5	1700	2082
2000A	80B	1130.4	113040.0	2000	2227.5	2000	2100

DRAWING OF INSTALLATION

√ In order to measure the flow accurately, it is necessary to have more than 5D in the front end and 3D in the rear end.

By pass	
Tee	
90˚ Bend	
horizontality	
Reducer/Expansion pipe	

MOUNTING POSITION OF LCD DISPLAY