



KMSG-8000 Series

Thermal Mass Flow meter
Perfectly Adapted to All Gases

■ FEATURE

- CE - LVD(2014/35/EC), EMC(2014/30/EU), RoHS(2011/65/EU)
- Measures mass flow rate using two temperature sensors
- Temperature & Pressure are automatically calibrated
- High accuracy and excellent reproducibility
- Applicable to most of gases
- Varied materials can be used for the sensor
- Wide range of measurement (200: 1)
- No maintenance is necessary because there are no driving parts, impediments, or wear.
- Customized piping installation length
- Explosion Proof Certification : Ex d IIC T5 / IP67

■ APPLICATIONS

- ▶ General industry
 - Utility Use: Auxiliary and supply lines used in energy distribution
 - Measure consumption of industrial gas (natural gas, nitrogen, etc.)
 - Measurement of consumption of compressed air system
- ▶ Iron, Steel and Metal industry
 - Oxygen, natural gas
- ▶ Machinery and Equipment (OEM industry)
 - Carrier air, etc. (eg sterilizing equipment, packing machines, etc.)
 - Burner consumption
- ▶ Paper industry
 - Compressed air etc.
- ▶ Oil & Gas industry
 - Natural gas

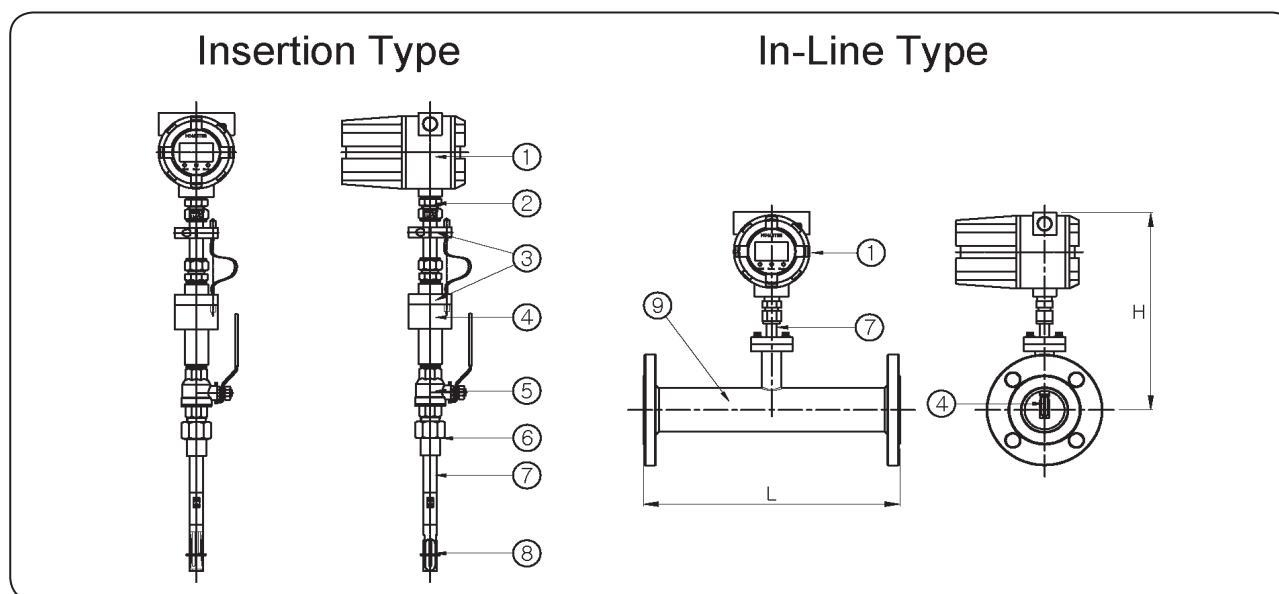
KMSG-8000MT General Specifications

Size	10A (3/8") - 800A (32")
Process Connection	Flange type - Standard JIS10K RF (Option. KS 10K, ANSI 150#, DIN 16 bar)
Flow Velocity	0.1 Nm/s ~ 100 Nm/s
Measured Flow	Most of Gas
Accuracy	±0.5 % F.S
Fluid Temperature	-40 °C ~ 220 °C
Ambient Temperature	-20 °C ~ 45 °C
Max. Pressure	1.6 MPa
Power Supply	AC 85-250 V (50~60) Hz / 20 W DC 24 V
Display	4 Lines LCD Mass Flow, Volume Flow in Standard Condition, Totalizer, Velocity, Time
Output	DC 4-20 mA, Pulse, RS485 (Modbus-RTU), Contact (High, Low)
Explosion Proof Grade	Ex d IIC T5
Ingress Protection Grade	IP 67

MODEL CODE

K	M	S	G	-	8	□□□	-	□□	-	□□	Specification
						010 ~ 800					Connection Size (KMSG-8000MT Series) 10A ~ 800A
								MT			In-Line Type
								MI			Insertion Type
									Ex		Ex d IIC T5 IP 67

STRUCTURAL DRAWING



DIMENSIONS

Connection size		(L)Length	(H)Height
10A	3/8 B	350	236
15A	1/2 B	350	240
20A	3/4 B	350	243
25A	1 B	350	247
32A	1-1/4 B	350	251
40A	1-1/2 B	350	254
50A	2 B	350	260
65A	2-1/2 B	350	268
80A	3 B	350	274
100A	4 B	350	287
125A	5 B	350	300
150A	6 B	350	312
200A	8 B	400	338
250A	10 B	400	363
300A	12 B	400	389
350A	14 B	400	407
400A	16 B	400	433
450A	18 B	400	458
500A	20 B	400	484
550A	22 B	-	509
600A	24 B	-	534
650A	26 B	-	560
700A	28 B	-	585
750A	30 B	-	611
800A	32 B	-	636

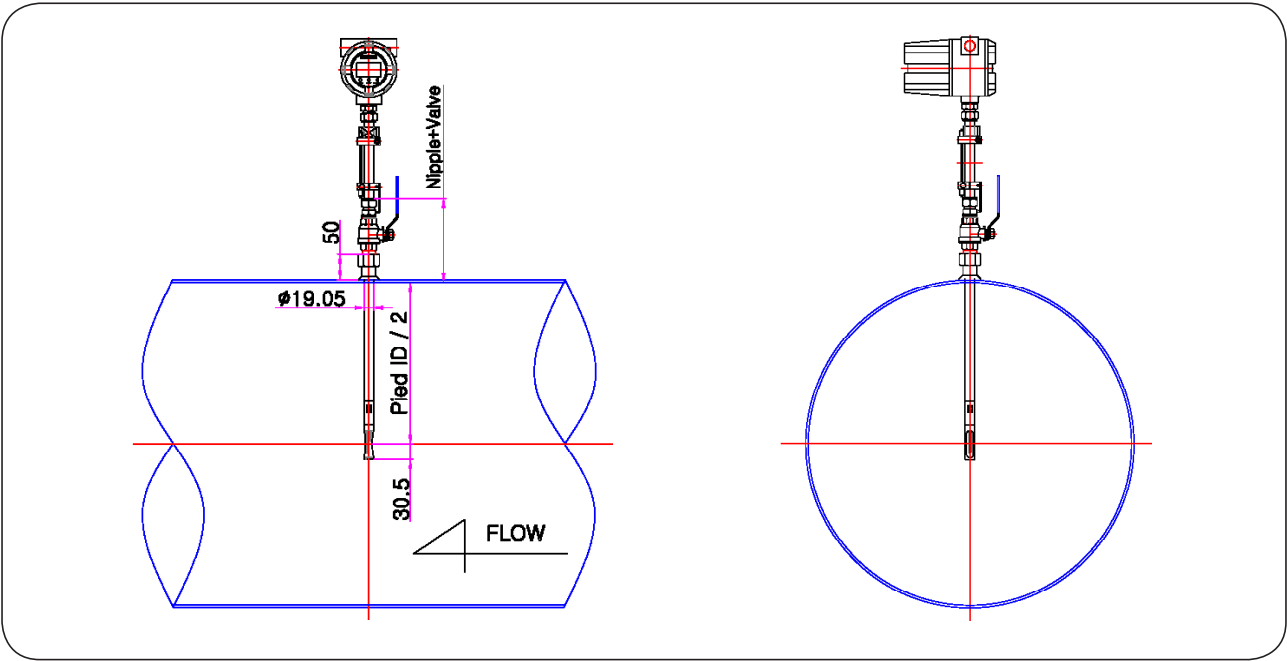
√ Customizable Dimension.

STANDARD MATERIAL

No.	Description	Material	
		A	B
1	Indicator	ADC 12T	
2	Top Connector	316SS	
3	Safety ring	304SS	316SS
4	Bottom Connector	316SS	
5	Valve	304SS	316SS
6	Socket	304SS	316SS
7	Probe	316SS	
8	Thermal Sensor	316SS	
9	Body (In-line)	304SS	316SS

√ Material can be custom made.

■ INSTALLATION EXAMPLE (INSERTION TYPE)



■ PIPING CONFIGURATION

Classification	Upstream Pipe style	straight Pipeline Inlet / Outlet	
		Insertion	In-line
Concentric Shrink / Enlarge Tube		10D / 5D	6D / 4D
Elbow		10D / 5D	6D / 4D
Two same Plane Elbow		12D / 5D	8D / 4D
Two Different Plane Elbow		20D / 5D	10D / 4D
Valve		25D / 5D	15D / 4D