

CE

LOMAS
TECHNOLOGY - GERMANY



LOMAS Flow Instrument LMS - VE Series

Electromagnetic Flowmeter

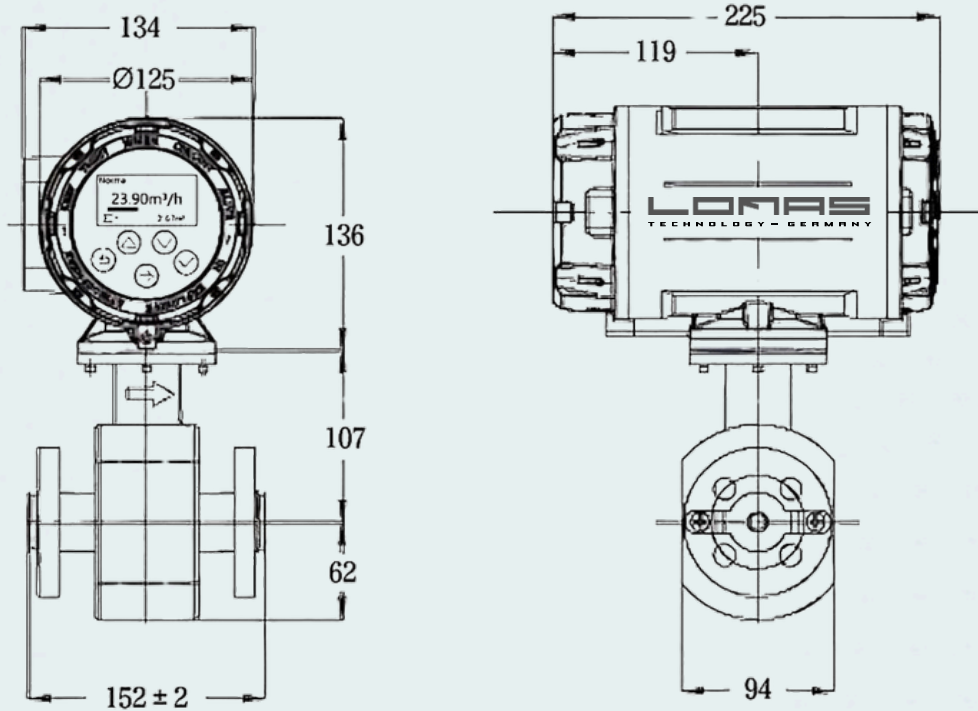
LMS - VE11E

- Typical Applications
- Municipal Water & Environmental Systems
- Industrial Wastewater & Slurry
- Chemical Dosing and Transfer
- Acid Alkali Process Lines
- Cooling Water & Utility Circuits
- Desalination & Brine Systems

Outline and Dimensional Drawing of the VE Electromagnetic Flowmeters

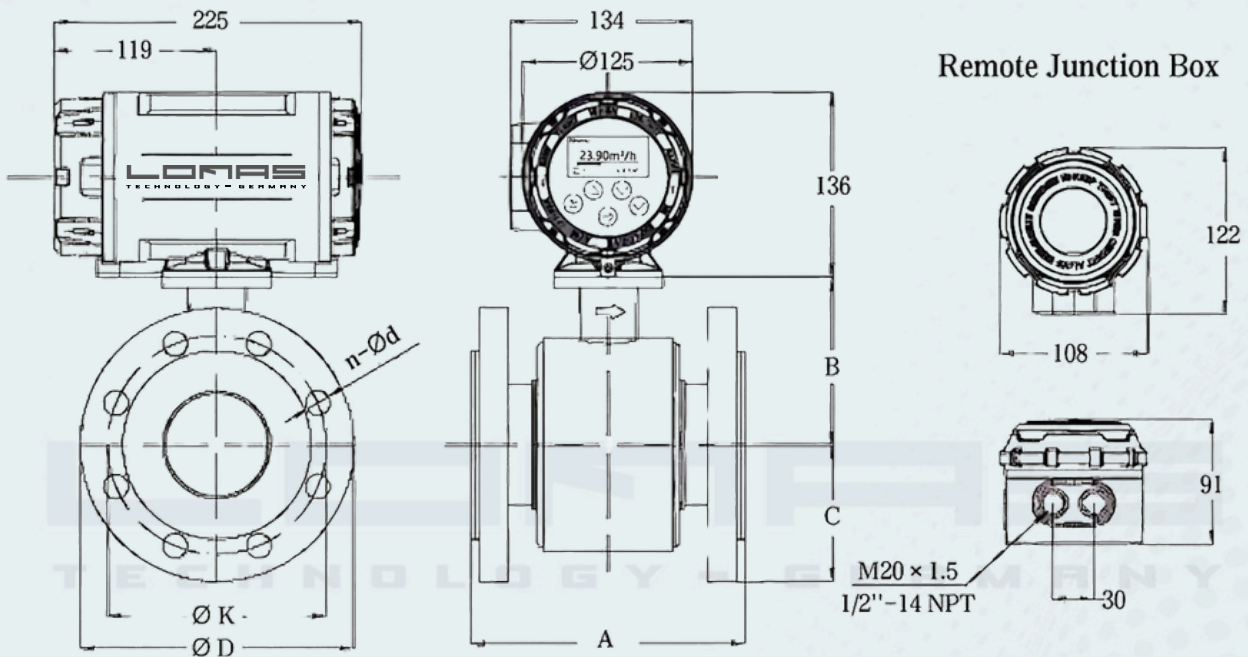
LMS - VE11E / LMS - VE11H Flanged Electromagnetic Flowmeter Dimensions (Units: mm)

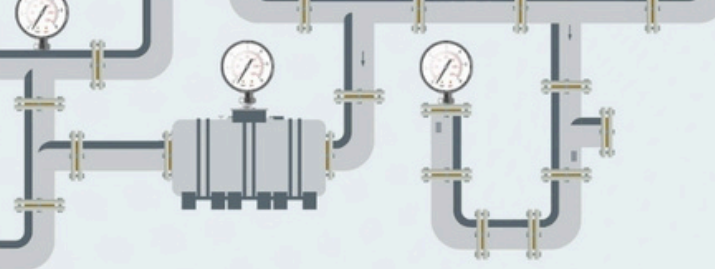
► Applicable Nominal Diameters: DN3 – DN8



LMS - VE11E / LMS - VE11H Flanged Electromagnetic Flowmeter Dimensions (Units: mm)

► Applicable Nominal Diameters: DN10 – DN450



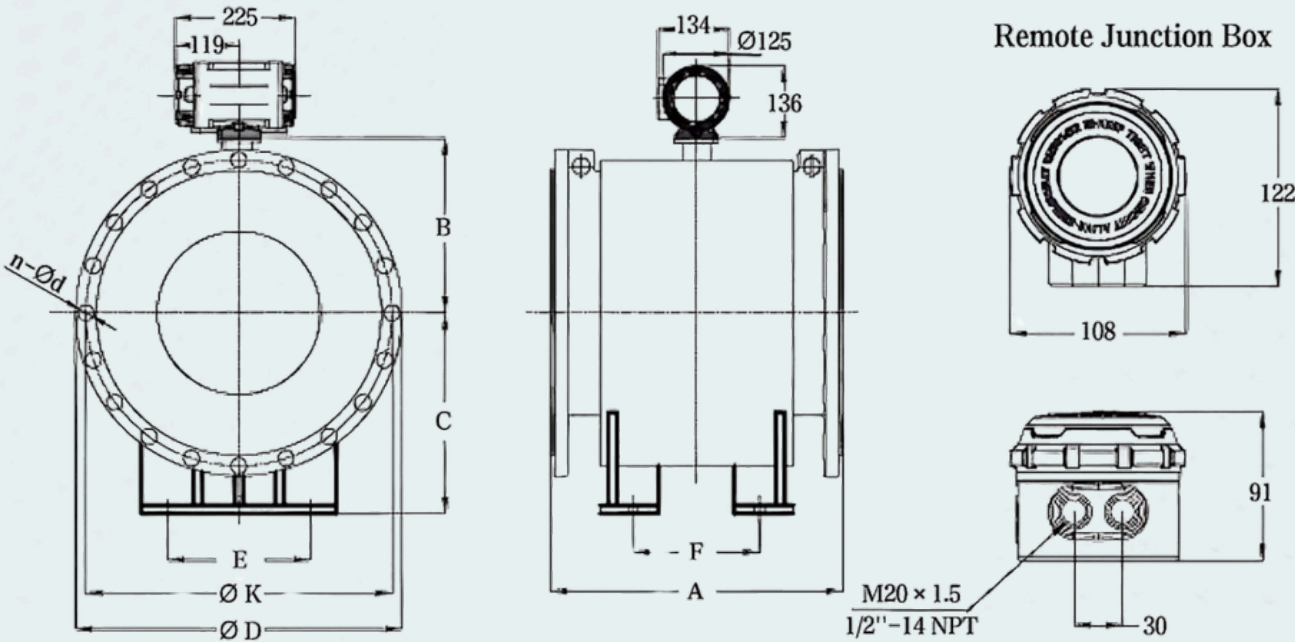


LMS - VE11E/LMS - VE11H Dimension Table (Units: mm)

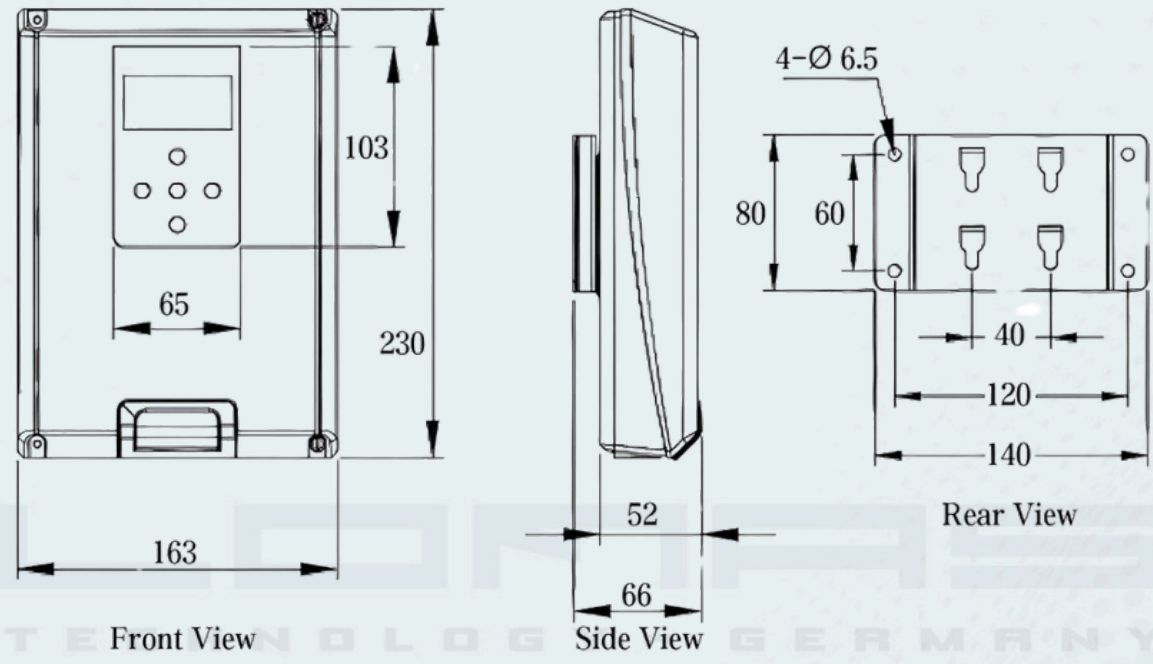
DN	Rated Pressure (MPa)	A	B	C	E	F	D	K	n × Φd
10	4.0	150	102	45	–	–	90	60	4 × Φ14
15	4.0	150	102	48	–	–	95	65	4 × Φ14
20	4.0	150	102	53	–	–	105	75	4 × Φ14
25	4.0	150	102	58	–	–	115	85	4 × Φ14
32	4.0	150	102	70	–	–	140	100	4 × Φ18
40	4.0	200	102	75	–	–	150	110	4 × Φ18
50	4.0	200	112	83	–	–	165	125	4 × Φ18
65	4.0	200	123	93	–	–	185	145	8 × Φ18
80	4.0	200	123	100	–	–	200	160	8 × Φ18
100	1.6	250	149	110	–	–	220	180	8 × Φ18
125	1.6	250	149	125	–	–	250	210	8 × Φ18
150	1.6	300	161	143	–	–	285	240	8 × Φ22
200	1.6	350	191	170	–	–	340	295	12 × Φ22
250	1.6	450	224	203	–	–	405	355	12 × Φ26
300	1.6	500	249	230	–	–	460	410	12 × Φ26
350	1.6	500	274	260	–	–	520	470	16 × Φ26
400	1.0	600	305	290	–	–	580	525	16 × Φ30
450	1.0	600	330	308	–	–	615	565	20 × Φ26
500	1.0	600	367	403	300	240	670	620	20 × Φ26
600	1.0	600	417	453	300	270	780	725	20 × Φ30
700	1.0	700	473	559	400	350	895	840	24 × Φ30
800	1.0	800	523	609	400	400	1015	950	24 × Φ33
900	1.0	900	573	659	400	470	1115	1050	28 × Φ33
1000	1.0	1000	623	711	400	570	1230	1160	28 × Φ36
1200	0.6	1200	725	813	600	710	1405	1340	32 × Φ33
1400	0.6	1400	826	914	600	900	1630	1560	36 × Φ36
1600	0.6	1600	926	1036	800	1040	1830	1760	40 × Φ36
1800	0.6	1800	1026	1136	800	1180	2045	1970	44 × Φ39
2000	0.6	2000	1126	1236	800	1350	2265	2180	48 × Φ42

LMS - VE11E / LMS - VE11H Flanged Electromagnetic Flowmeter Dimensions (Units: mm))

Applicable Nominal Diameters: DN > DN500



VE Series Remote/Split-type Wall-mounted Square Converter Dimensions (Units; mm)



12. VE Series Ordering Information

12.1 LMS - VE11E Premium High-Precision Electromagnetic Flowmeter Ordering Information

Code Structure: LMS - VE11E/0/0/0/0/0/0/0/□□/Accessories (18-Digit Product Code)

1.Measurement Accuracy

Description	Code
Standard Accuracy $\pm 0.5\%$	A
High Accuracy $\pm 0.3\%$ (DN10-DN500)	B
High Accuracy $\pm 0.2\%$ (DN10-DN500)	C

2.Process Connection

Description	Code
Flange EN 1092-1/HG/T 20592 SO RF	F-1
Flange ASME B16.5/HG/T 20615 SO RF	F-2
Customized	z

3.Lining Material

Description	Code
Polyurethane (PU)	J
Neoprene Rubber (CR)	H
PTFE	T
F46 (Modified PTFE)	R
PFA	P
Customized	Z

4.Nominal Diameter & Standard Rated Pressure

DN (mm)	INCH	Pressure	Code
3	-	4.0 MPa	03
16	1/8"	4.0 MPa	06
18	1/4"	4.0 MPa	08
10	3/8"	4.0 MPa	10
15	1/2"	4.0 MPa	15
20	3/4"	4.0 MPa	20
25	1"	4.0 MPa	25
32	1-1/4"	4.0 MPa	32
40	1-1/2"	4.0 MPa	40
50	2"	4.0 MPa	50
65	2-1/2"	4.0 MPa	65
80	3"	4.0 MPa	80

4. Nominal Diameter & Standard Rated Pressure

DN (mm)	Inch	Pressure	Code
100	4"	1.6 MPa	1H
125	5"	1.6 MPa	1Q
150	6"	1.6 MPa	1F
200	8"	1.6 MPa	2H
250	10"	1.6 MPa	2F
300	12"	1.6 MPa	3H
350	14"	1.6 MPa	3F
400	16"	1.0 MPa	4H
450	18"	1.0 MPa	4F
500	20"	1.0 MPa	5H
600	24"	1.0 MPa	6H
700	28"	1.0 MPa	7H
800	32"	1.0 MPa	8H
900	36"	1.0 MPa	9H
1000	40"	1.0 MPa	1T
1200	48"	0.6 MPa	2M
1400	56"	0.6 MPa	4M
1600	64"	0.6 MPa	6M
1800	72"	0.6 MPa	8M
2000	80"	0.6 MPa	0M

5. Measuring/ grounding electrode Material

Measuring Electrode	Grounding Electrode	Code
Scraper	None	A
Hastelloy B	None	B
Hastelloy C 276	None	H
Titanium (Ti)	None	M
Tantalum (Ta)	None	T
Platinum-Iridium (Pt-Ir)	None	P
Tungsten Carbide (WC)	None	U
SS 316L Standard	With Grounding (same material)	E
Hastelloy B	With Grounding	N
Hastelloy C 276	With Grounding	O
Titanium (Ti)	With Grounding	I
Tantalum (Ta)	With Grounding	Q
Platinum-Iridium (Pt-Ir)	With Grounding	G
Tungsten Carbide (WC)	With Grounding	V
Customized	With Grounding	Z

6. Specified Rated Pressure

Pressure	Code
0.6 MPa	B
1.0 MPa	C
1.6 MPa	D
2.5 MPa	E
4.0 MPa	F
6.3 MPa	G
10.0 MPa	H
CLASS 150	I
CLASS 300	J
CLASS 600	K
Customized	Z

7. Meter Body & flange Material

Meter Body / Flange	Code
Carbon Steel	1
Stainless Steel 304	2
Stainless Steel 316	3
Stainless Steel 316L	4

8. Mating Flange Material

Description	Code
No Mating Flange	0
Carbon Steel	1
Stainless Steel 304	2
Stainless Steel 316	3
Stainless Steel 316L	4

9. Grounding Ring

Material	Code
None	A
Stainless Steel 304	B
Stainless Steel 316	C
Stainless Steel 316L	D
Titanium (Ti)	E
Tantalum (Ta)	F
Customized	Z

10. process Temperature Range

Range	Code
Process Temperature < 65°C	0
Process Temperature < +150°C	1
Process Temperature < +180°C	2
Process Temperature < +200°C	3

11. Converter Mounting Type

Description	Code
Integral	T
Integral 0° Installation	L
Integral 45° Installation	S
Remote/Split	R

12. signal Output & Communication Protocol

Description	Code
4–20 mA + Pulse	01
4–20 mA + Pulse + HART 7	02
4–20 mA + Pulse + Modbus RTU RS485	03
4–20 mA + Pulse + Profibus	04
4–20 mA + Pulse + Modbus RTU RS485 + HART 7	05

13. Power Source

Description	Code
220 VAC	G
24 VDC	K

14. Ingress Protection

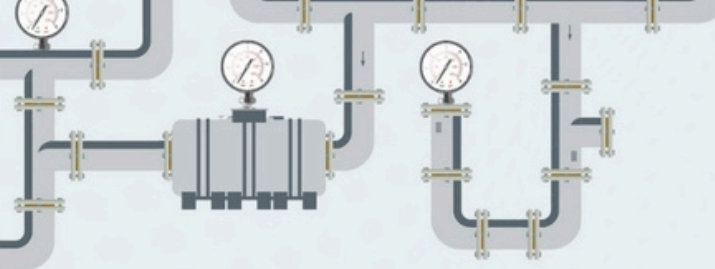
Description	Code
IP65	0
IP67	1
IP68 (Remote Only)	2

15. Explosion-Proof Type

Description	Code
Non-Ex	0
Ex db eb ia IIC T3... T6 Ga/Gb	EX

16. Electrical Interface

Description	Code
1/2–14 NPT	0
M20×1.5	1



17. Cable Length (remote Only)

Description	Code
Standard 5 m	R5
Customized (max 50 m)	RXX

4. Nominal Diameter & Standard Rated Pressure

Description	Code
Noise Immunity Design (Electrolyzer)	/K
Third-Party Inspection Report	/W
SS 304 Converter Housing	/X
SS 316 Converter Housing	/Y
SS 316L Converter Housing	/Z
Electrical Connector Nickel-Plated Brass (Standard)	/J1
Electrical Connector SS 304	/J2
Low-Temperature Protection (Medium $\leq -30^{\circ}\text{C}$)	/P
Bluetooth	/L
Pressure Pipeline Supervision & Inspection	/T1
CNAS Calibration Report	/C

Notes:

- [1] When the accuracy is $\pm 0.3\%$ or $\pm 0.2\%$, the applicable diameter range is limited to DN10-DN500.
- [2] DN3 / DN6/ DN8 sensors use a dual-electrode design and must be equipped with grounding rings.
- [3] The DN3 size is supplied as standard with a 304 stainless steel sensor.
- [4] When the medium temperature is $\leq -30^{\circ}\text{C}$, low-temperature protection must be selected.
- [5] For the remote, non-explosion-proof converter, the electrical interface is available only as M20 \times 1.5.