

# HVM60 SERIES VORTEX FLOWMETERS



**Model No. : HVM60-MV-F**  
**Model Type : Flange Type**



**Model No. : HVM60-MV-W**  
**Model Type : Wafer Type**



**Model No. : HVM60-N-F**  
**Model Type : Flange Type**



**Model No. : HVM60-N-W**  
**Model Type : Wafer Type**

# HVM60 SERIES VORTEX FLOWMETERS



## Model No. : HVM60 series

HVM60 series is vortex flow meters that can meet the flow measurement requirements of various fluids such as gas, vapor and liquid. It uses transmitter technology that provides superior signal processing and takes eddy current measurement technology to a new level, lowering measurement limits and improving stability and accuracy. The unique dual-sensor design and special signal processing method eliminate vibration signals, providing more stable performance and lower measurement limits, improving anti-vibration performance.

## Features :

- Maintenance-free sensor design
- Own density calculation function (optional) density and mass flow calculation without mass flow computer
- Can work with separate RTD and pressure transmitters to output mass flow, temperature and pressure
- Unit selectable function
- 304SS, 316SS, insulation, wafer, flange, various compensation options, various output signal options.
- Bluetooth function option, display remote control possible with smart phone

## GENERAL SPECIFICATIONS

Process Fluids	Used in liquid, gas and steam applications. Fluids must be homogeneous and single-phase.
Line Sizes	The wafer and flanged type cover line size as below 1", 1.5", 2", 2.5", 3", 4", 5" 6", 8", 10" and 12" (DN25, DN40, DN50, DN65, DN80, DN100, DN125, DN150, DN200 and DN300) The insertion type covers DN200~1000. Any requirements on other sizes, please check with us.
Process Connection	Flanged, wafer, insertion, DN, ANSI, JIS, DIN standard flanges are optional
Displayer	Integral or remote, 3 buttons control, 2 lines LCD displayer 1. line has 5 digits to display velocity, or mass flow or volume flow or frequency or temperature or pressure 2. line has 8 digits to display total flow. A small extra line above 1 line will indicate what parameter being displayed in 1 line. Note: The display can only display metric units, so when customer select Britain or US units. The display will show number only but will not show the units.
Measurable Parameter	Standard version : Volume flow rate in pipe, velocity (Can measure mass flow rate, temperature and pressure if wired to separate RTD and pressure transmitter.) Multi-variable version : Mass flow rate, volume flow rate in standard condition, temperature, pressure, volume flow rate in pipe and velocity.
Fluid Temperature	Standard : -40~150 °C High temperature version : -40~250 °C (Not for insertion type version)
Pressure Rating	Standard pressure rating is 1.6Mpa. Optional pressure rating includes 2.5Mpa, 4Mpa, 6.4Mpa and 10Mpa. For higher pressure, please contact us to check the availability)
Output	Pulse, 4~20mA, HART@4~20mA (The HART signal is on 4~20mA)
Explosive Proof	Ex-proof version is optional. (Ex dII C T3 Gb from NPL)
COMATE APP	Blue tooth function is optional to all COMAT products. Customers can read all data of the meter in COMATE APP on an telephone or pad. The signal is valid within about 5 meter in front of the meter.

# HVM60 SERIES VORTEX FLOWMETERS



## WAFER FLOWTUBE SPECIFICATIONS

	Min. Limit	Max. Limit
Gas	6 m/s, DN15, DN20	60 m/s
	4 m/s, DN25, DN32	
	2 m/s, DN40~DN300	
Steam	6 m/s, DN15, DN20	70 m/s
	4 m/s, DN25, DN32	
	2 m/s, DN40~DN300	
Liquid	0.3 m/s	7 m/s

## ACCURACY

Variables	For gas and steam	Liquid
Flow Rate (m <sup>3</sup> /h)	±1%RD (Re ≥ 20000) ±2%RD (10000 < Re < 20000)	±0.75%RD (Re ≥ 20000) ±2%RD (10000 < Re < 20000)
Mass Flow (Kg/h)	±1.5%RD (Re ≥ 20000) ±2.5%RD (10000 < Re < 20000)	±1.0%RD (Re ≥ 20000) ±2.5%RD (10000 < Re < 20000)
Temperature (°C)(For multi-variable version)	±1°C	±1°C
Pressure (Mpa) (For multi-variable version)	±0.75% FS	±0.75% FS

# HK60 & 62 SERIES VORTEX FLOWMETERS



**Model No. : HK60-F**  
**Model Type : Flange Type**



**Model No. : HK60-W**  
**Model Type : Wafer Type**



**Model No. : HK62-F**  
**Model Type : Flange Type**

# HK60 & 62 SERIES VORTEX FLOWMETERS



## Model No. : HK60 & HK62 series

HK60 and HK62 series are the vortex flow meters that can meet the flow measurement requirements of various fluids such as gas, vapor and liquid. It provides signal processing capabilities, presents eddy current measurement techniques, lowers measurement limits, and provides stability and accuracy. It provides lower flow rates by providing lower measurement limits.

## Features :

- Liquid, dry gas, wet gas, wet steam, saturated steam, superheated steam application
  - Flange and body: SS304 material composition
  - Flow transducer: modular design, easy operation
  - Triangular prism with built-in advanced sensor
  - Temperature sensor can measure the maximum temperature around 350 °C -40 ~ 250 °C
- ※ HK60 series : temperature and pressure compensation type

## GENERAL SPECIFICATIONS

Size	DN15~DN300mm (flanges and wafer) DN100~DN2000mm (Insertion)
Medium Temperature	Liquid, Gas, Steam
Accuracy	±0.75% of read (liquid), ±1.0% of read (gas and steam)
Nominal Pressure	1.6Mpa, 2.5Mpa, 4.0Mpa
Protection Grade	IP65
Ex-proof Class	ExdIIB T6 Gb
Body Material	SS304, SS316
Medium Temperature	-20°C~+100°C, -20°C~+250°C, -20°C~+350°C,
Signal Output	4~20 mA (two wires), pulse (three wires)
Power Supply	24VDC, 3.6V Lithium
Ambient Temperature	-25°C ~ +55°C
Humidity	5~90% RH
Pressure Loss	Resistance coefficient $CD \leq 2.4$
Connection	Flange : DN15 ~ DN300 Wafer : DN15 ~ DN300 Insertion : DN100 ~ DN2000
Communication	RS485