MANOTHERM

MT-F100VT

VORTEX FLOW METER

FEATURES

- A wide range of measuring media such as liquids, gases and steam can be measured
- With temperature and pressure compensation function, stable measurement
- High working temperature. fluid temperature for high temperature probe can reach 350°C

APPLICATIONS

- Mostly used for flow measurement of saturated steam and superheated steam
- It can also be used for nitrogen, methane, hydrogen, air, compressed air and other gases
- It can also measure low viscosity liquids. Care should be taken to avoid vibration when using a vortex flowmeter

STANDARD PARAMETERS

Nominal diameter	½" to 24" (DN15-DN600)
Accuracy	±0.075% ~ ±1% Reading
Power supply	24VDC (220VAC, 3.6V customizable)
Material	Carbon steel / Stainless steel
Medium Temperature	-40...+250°C (+260...+350°C high temperature probe optional)
Pressure	1.6Mpa
Connection type	Thread connection (DN25-50mm) Clamping connection (DN25-200mm) Flange type (DN25-200mm)
Structure	Integrated type, Split type (10m cable) Insertion type (DN200-1500mm)
Protection level	IP65/IP68
Temperature and pressure compesation	With/ Without
Output communication	Standard configuration: Pulse, 4-20mA, RS485, MODBUS, HART

FLOW RANGE SHEET

Flow Range (m^3/h)		
Diameter	**Gas**	**Liquid**
DN25	6-60	1.5-10
DN32	10-100	2-15
DN40	18-180	3-20
DN50	30-300	4-40
DN65	50-500	6-60
DN80	70-700	13-130
DN100	100-1000	20-200
DN125	150-1500	36-360
DN150	200-2000	50-500
DN200	400-4000	100-1000

Rev. 00

ORDERING CODES

1. NOMINAL DIAMETER (mm)	XXX
XXX	Three digits, refer to Nominal Diameter Coding Table

2. NOMINAL PRESSURE	1
1	1.6MPa
2	2.5MPa
3	4.0MPa
4	Other

3. CONNECTION	1
1	Flange
2	Tri-clamp
3	Thread
4	Hygienic
5	Plug-in

4. MEDIUM	1
1	Liquid
2	General Gas
3	Saturated vapor (steam)
4	Superheated steam

5. OUTPUT	C
A	4-20mA
B	RS485
C	HART

6. SPECIAL TAG	G
X	Field display
G	High temperature 350°C
W	Temperature compensation
Y	Pressure compensation
Z	Temperature and pressure compensation

Ordering Example:
MT-F100VT-XXX-1-1-1-C-G

NOMINAL DIAMETER CODING TABLE

NOMINAL DIAMETER	CODE
25	025
32	032
40	040
50	050
65	065
80	080
100	110
125	112
150	115
200	120