



FEATURES

- Small pressure loss, high precision, good stability, two-way measurement
- Measurements are not affected by fluid density, viscosity, temperature, pressure and conductivity
- The LCD backlight converter can be easily read in the sun or in a dark room

APPLICATIONS

- Water, acid, alkali, seawater and other strong corrosive or conductive liquids containing impurities
- Widely used in petrochemical, iron and steel metallurgy, water supply and drainage, irrigation, water treatment, environmental protection sewage measurement and control, paper making, medicine, etc.

STANDARD PARAMETERS

Nominal diameter	1/4" to 10" (DN8-DN2500)
Power supply	24VDC, 220VAC, 3.6V battery powered (Please specify when ordering)
Electrode	SS316L, HB, HC, Ti, Ta, Pt, WC
Liner	CR (<60°C), PU (<80°C), PTFE (<120°C), F46 (<180°C), FPM (<180°C)
Rated pressure	0.6-4.0Mpa (high pressure customizable)
Connection type	Thread connection (DN6-50mm) Tri-clamp connection (DN4-100mm) Flange type (DN10-250mm)
Structure	Integrated type, Remote type, Insertion type
Protection level	IP65/IP68
Remote type cable	10m (standard configuration)
Output communication	Pulse, 4-20mA, RS485 MODBUS (Standard configuration) HART, GPRS, Profibus (Optional)
Explosion proof	Exd ia [ia Ga] qII CT6 Gb (Optional)

FLOW RANGE SHEET

Flow Range (m³/h)	
DN6	0.05-0.5
DN10	0.14-1.4
DN15	0.3-3
DN20	0.57-5.7
DN25	0.88-8.8
DN32	1.4-14
DN40	2.2-22
DN50	3.5-35
DN65	6-60

Flow Range (m³/h)	
DN80	9-90
DN100	14-140
DN125	22-220
DN150	32-320
DN200	57-570
DN250	88-880

ELECTRODE MATERIALS AND APPLICATION

Electrode Material	Application
SS316L	Industrial/ municipal water, wastewater and low corrosive mediums.
Tungsten carbide	Non-corrosive, strong wear mediums. Such as: mud, pulp and so on.
Hastelloy B	Strong resistance to hydrochloric acids below the boiling point. Resist against oxidizable acids, alkali and non-oxidizable salts. For instance, vitriol, phosphate, hydrofluoric acids, and organic acids.
Hastelloy C	Exceptional resistance to strong solutions of oxidizing salts and acids. For example, Fe ³⁺ , Cu ²⁺ , Nitric acids, mixed acids.
Titanium	Titanium can withstand corrosive mediums such as seawater, chloride salt solution, hypochlorite salts, oxidizable acids (including fuming nitric acids), organic acids, and alkali.
Tantalum	Highly resistant to corrosive mediums. Applicable to all chemical mediums except hydrofluoric acids, oleum and alkali.
Platinum-iridium	Applicable to all chemical mediums except for ammonium salts.

ELECTRODE MATERIALS AND APPLICATION

Lining Material	Main conditional		
CR	<table border="1"> <tr> <td>1. Good abrasion resistance 2. Resistant to the corrosion of general low-concentration acid alkali, and salt media</td> <td>1. ≤60°C 2. Water, sewage</td> </tr> </table>	1. Good abrasion resistance 2. Resistant to the corrosion of general low-concentration acid alkali, and salt media	1. ≤60°C 2. Water, sewage
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PU	<table border="1"> <tr> <td>1. Excellent wear resistance 2. Poor acid and alkali resistance</td> <td>1. ≤80°C 2. Slurry</td> </tr> </table>	1. Excellent wear resistance 2. Poor acid and alkali resistance	1. ≤80°C 2. Slurry
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Rev. 00

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ORDERING CODES

1. NOMINAL DIAMETER (mm) XXX

XXX Three digits, refer to Nominal Diameter Coding Table

2. NOMINAL PRESSURE 3

1	0.6MPa
2	1.0MPa
3	1.6MPa
4	2.5MPa
5	4.0MPa
6	other

3. CONNECTION 1

1	Flange
2	Tri-clamp
3	Hygienic
4	Threaded

4. LINING MATERIAL A

A	PTFE (Polytetrafluoroethylene)
B	CR (Neoprene)
C	PU (Polyurethane)
D	F46 (PFEP)
E	PFA (Perfluoroalkoxy)
F	FPM

5. ELECTRODE MATERIAL 4

1	316L
2	Hastelloy B
3	Hastelloy C
4	Titanium
5	Platinum-iridium alloy
6	Tantalum
7	Tungsten Carbide

6. STRUCTURE TYPE 2

1	Integrated
2	Split (Remote) type
3	Integrated explosion-proof
4	Split type explosion-proof

7. POWER SUPPLY B

A	220 VAC
B	24 VDC
C	12 VDC
D	3.6 VDC

8. OUTPUT 1

1	4-20mA DC/pulse
2	4-20mA DC/RS485 communication
3	4-20mA DC/RS232C communication
4	HART

9. CONVERTER FORM A

A	Round (for integrated type)
B	Square (for remote type)

10. OTHER OPTION 4

1	Ground electrode
2	Companion flange
3	Electrode scraper structure
4	Other (Please specify)

Ordering Example: MT-F100MG-XXX-3-1-A-4-2-B-1-A-4

NOMINAL DIAMETER CODING TABLE

NOMINAL DIAMETER	CODE	NOMINAL DIAMETER	CODE
6	006	80	080
10	010	100	110
15	015	125	112
20	020	150	115
25	025	200	120
32	032	250	125
40	040	-	-
50	050	-	-
65	065	-	-