

Water Treatment



FLOW METERS DI MPO 01



The magnetic field excitation is a programmable rectangular wave with low frequency. It increases the stability of flow measurement and has low consumption.

DI MPO 01 uses a 16-bit microprocessor, fast processing and high accuracy.

Dual direction measurement function:

- Forward direction flow-rate
- Reverse direction flow-rate

Multifunction intelligent transmitter has self-test and self-diagnosis function. EEPROM can save the setting and the counters when power off.

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Technical characteristics

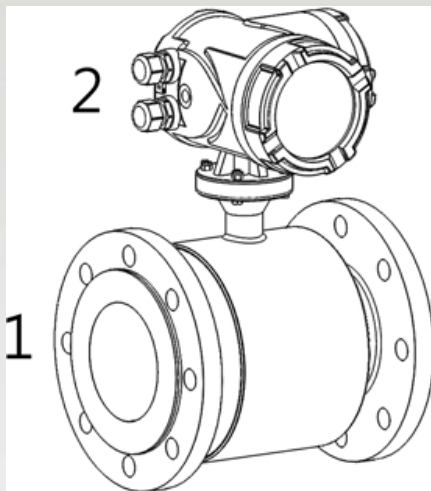
- **Flow Rate Range:** DI MPO 01 is able to process signals from fluids with flow rates of up to 10m / s in both directions (bidirectional meter).
- **Range dimension / lining material:** PTFE DN10 ÷ DN500 / RUBBER DN65 ÷ DN2000
- **Sensor material:** SS321
- **Housing material:** epoxy painting aluminium
- **Electrodes material:** SS316L - Hastelloy C - Titanium - Tantalum - Platinum
- **Measure range:** <0,1m³/h ÷ >110000m³/h
- **Accuracy:** ±0,5% standard; ±0,2% optional
- **Repeatability:** ±0,1%
- **Fluid conductivity:** >5µS/cm.
- **Power supply:** 85÷265Vac, (24Vdc, 12Vdc only for E,F,W,Y versions).
- **Consumption:** 6W, max. 8W.
- **Ambient Temperature Limits**
 - Remote version operating temperature:
RUBBER -10 ÷ +80°C; PTFE -40 ÷ +150°C
 - Compact version operating temperature:
RUBBER -10 ÷ +80°C; PTFE -40 ÷ +100°C
- **Storage temperature:** -40÷85°C
- **Communication protocol:** ModBus RTU or Hart (opt.)
- **Output:** 4÷20mA: 0÷500 ohm load.
- **Frequency output:** 0,1÷10000 Hz
- **Pulse output:** 24Vdc galvanically isolated or open collector galvanically isolated 24V 20mA (opt.)
- **Current Source:** Transmitter can be commanded to supply a specific test current between 4.0 and 20.0 mA.
- **Frequency Source:** Transmitter can be commanded to supply a specific test frequency between 0.1 and 5000 Hz
- **Humidity Limits:** 0-100% RH to 150 °F (65 °C), not condensing.
- **Damping Adjustable** between 0.1 and 99 seconds.
- Compact version IP rating IP67.
- Remote version IP rating sensor IP67, IP68 (by request) - converter IP67
- Anti-condensation filter installed on converter.

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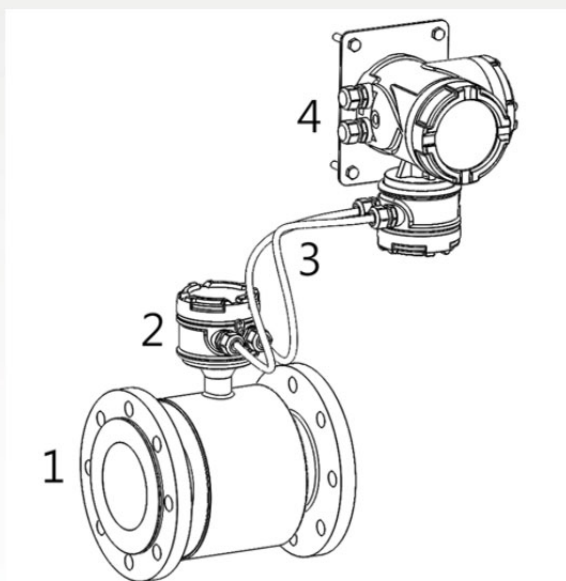
2 available versions

- **Compact version**



- 1- Sensor
- 2- Converter

- **Separate version**

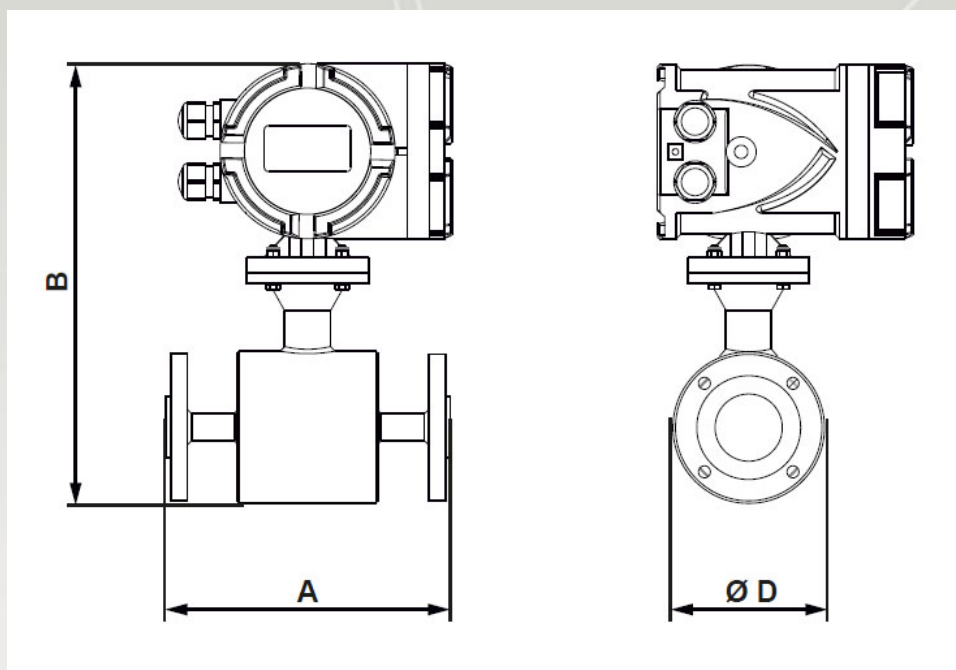


- 1- Sensor
- 2- Conexion case
- 3- Connection cables
- 4- Converter wall mounting

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Dimensional drawings

Compact version DN 10 ÷ DN80 PN16 – PN40

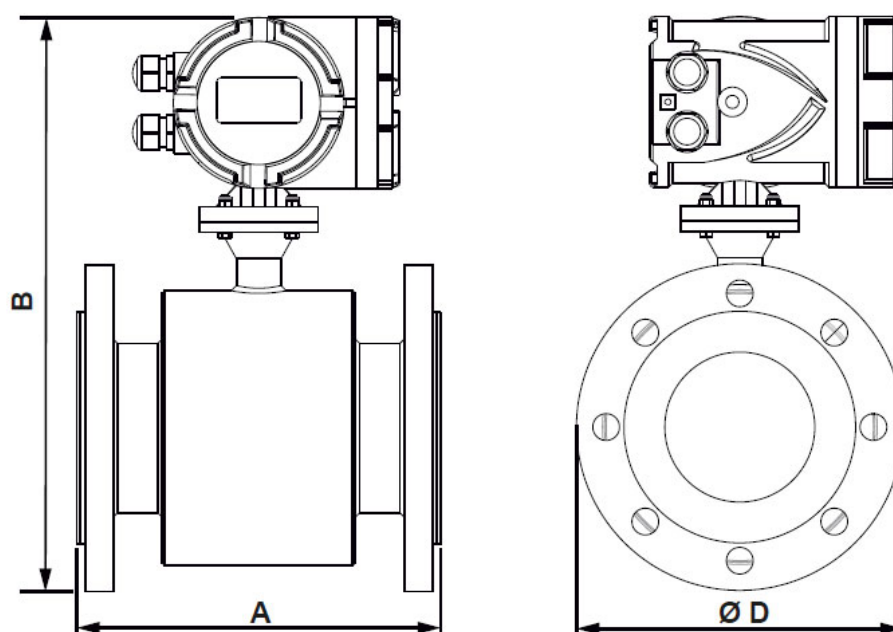


DN (mm)	A (mm)	PN16 – PN 40	
		B (mm)	ØD (mm)
10	200	295	90
15		295	95
20		300	105
25		300	115
32		315	140
40		335	150
50		344	165
65		360	185
80		375	200

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Dimensional drawings

Compact version DN 100 ÷ DN1000 PN10 - PN16 - PN40



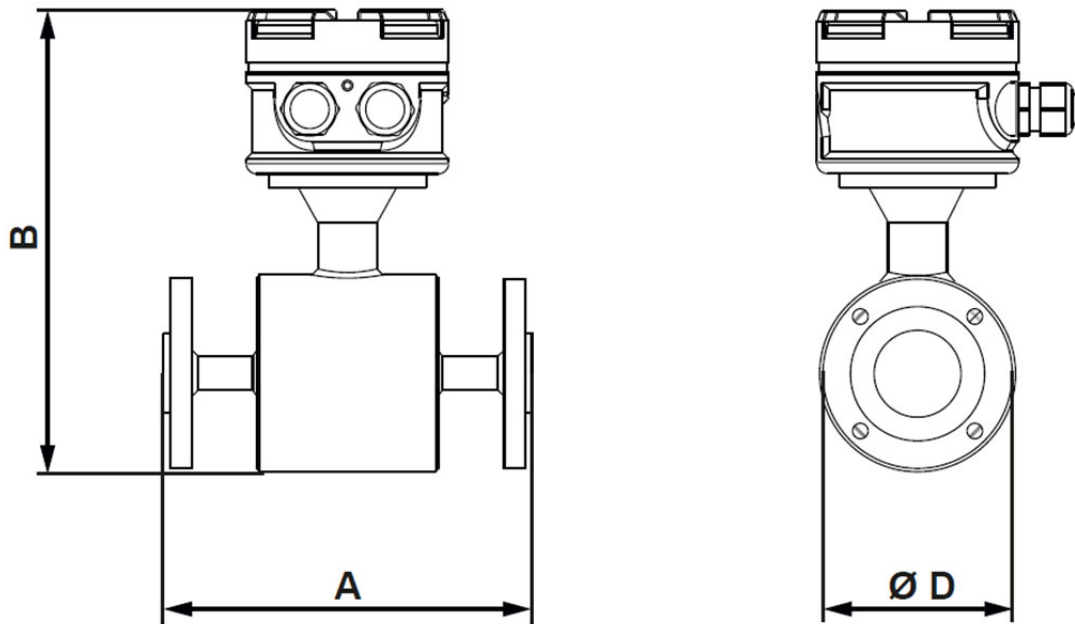
DN (mm)	A (mm)	PN 10		PN 16		PN 40	
		B (mm)	ØD (mm)	B (mm)	ØD (mm)	B (mm)	ØD (mm)
100	250	-	-	400	220	410	235
125	250	-	-	420	250	435	270
150	300	-	-	460	285	468	300
200	350	520	340	520	340	-	-
250	450	570	395	575	405	-	-
300	500	620	445	620	460	-	-
350	550	670	505	678	520	-	-
400	600	730	565	738	580	-	-
450	600	780	615	793	640	-	-
500	600	830	670	850	715	-	-
600	600	930	780	-	-	-	-
700	700	930	780	-	-	-	-
800	800	1165	1015	-	-	-	-
900	900	1270	1115	-	-	-	-
1000	1000	1360	1230	-	-	-	-

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Dimensional drawings

Separate version DN 10 ÷ DN25 PN16 – PN40



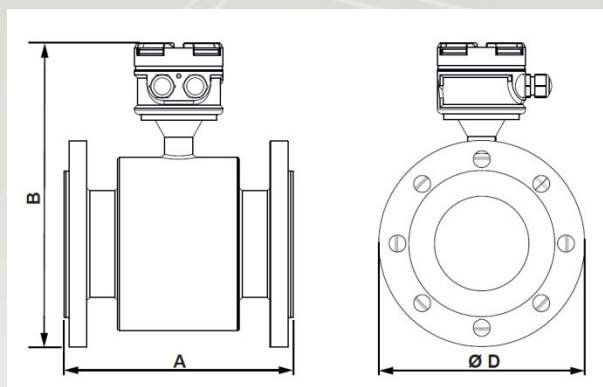
DN (mm)	A (mm)	PN 16 – PN 40	
		B (mm)	ØD (mm)
10	200	235	90
15		235	95
20		240	105
25		240	115

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Dimensional drawings

Separate version DN 32 ÷ DN1000 PN10 – PN16 – PN 40



DN (mm)	A (mm)	PN 10		PN 16		PN 40	
		B (mm)	ØD (mm)	B (mm)	ØD (mm)	B (mm)	ØD (mm)
32	200	-	-	251	140	254	140
40	200	-	-	270	150	270	150
50	200	-	-	280	165	280	165
65	200	-	-	298	185	298	185
80	200	-	-	315	200	315	200
100	250	-	-	333	220	343	235
125	250	-	-	358	250	368	270
150	300	-	-	393	285	400	300
200	350	450	340	450	340	-	-
250	450	505	395	510	405	-	-
300	500	550	445	558	460	-	-
350	550	605	505	613	520	-	-
400	600	665	565	673	580	-	-
450	600	715	615	728	640	-	-
500	600	765	670	785	715	-	-
600	600	870	780	-	-	-	-
700	700	987	895	-	-	-	-
800	800	1100	1015	-	-	-	-
900	900	1202	1115	-	-	-	-
1000	1000	1293	1230	-	-	-	-