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<https://injecta.nt-rt.ru> || ntc@nt-rt.ru

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.

Water Treatment



Technical characteristics

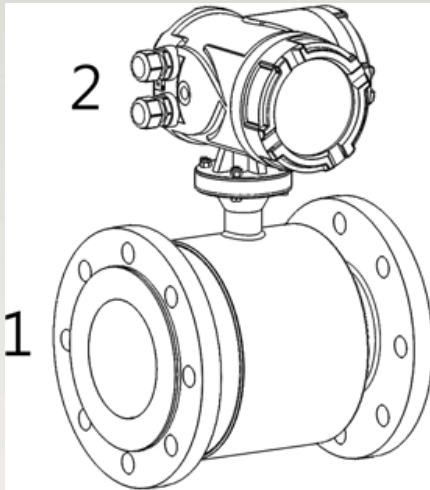
- **Flow Rate Range:** DI MPO 01 is able to process signals from fluids with flow rates of up to 10m / s in both directions (bidirectional meter).
- **Range dimension / lining material:** PTFE DN10 ÷ DN500 / RUBBER DN65 ÷ DN2000
- **Sensor material:** SS321
- **Housing material:** epoxy painting aluminium
- **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.

Water Treatment



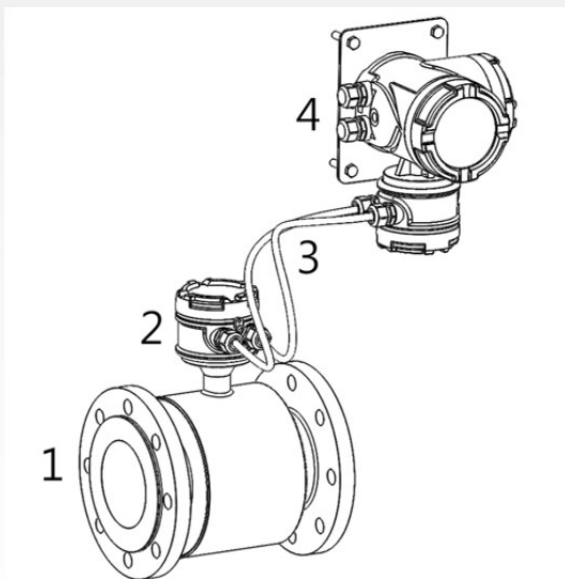
2 available versions

- **Compact version**



- 1- Sensor
- 2- Converter

- **Separate version**



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

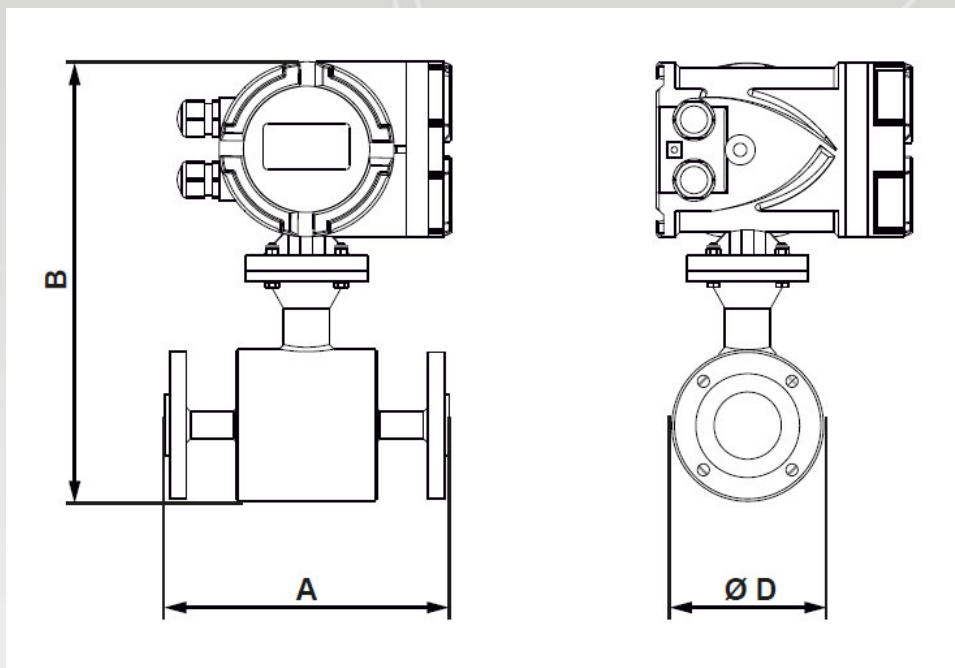
Water Treatment



Water Treatment

Dimensional drawings

Compact version DN 10 ÷ DN80 PN16 – PN40

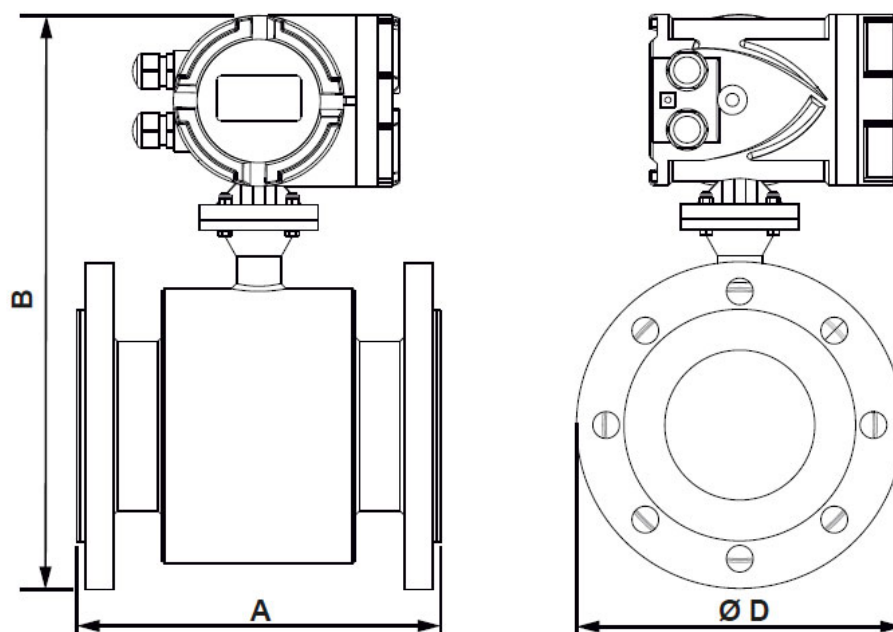


DN (mm)	A (mm)	PN16 – PN 40	
		B (mm)	ØD (mm)
10	200	295	90
15		295	95
20		300	105
25		300	115
32		315	140
40		335	150
50		344	165
65		360	185
80		375	200

Water Treatment

Dimensional drawings

Compact version DN 100 ÷ DN1000 PN10 - PN16 - PN40



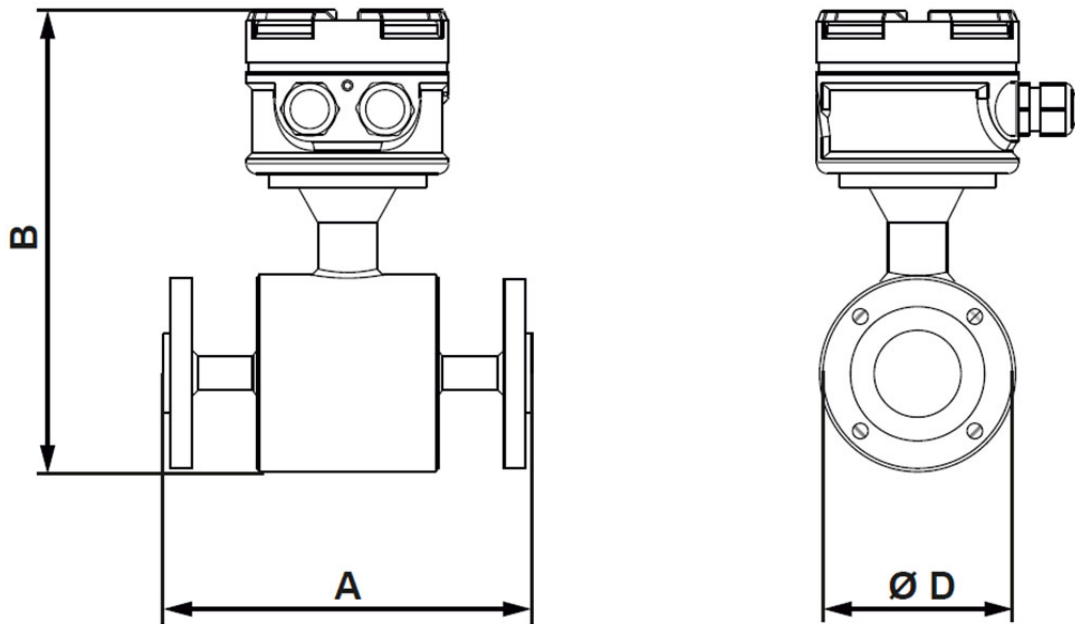
DN (mm)	A (mm)	PN 10		PN 16		PN 40	
		B (mm)	ØD (mm)	B (mm)	ØD (mm)	B (mm)	ØD (mm)
100	250	-	-	400	220	410	235
125	250	-	-	420	250	435	270
150	300	-	-	460	285	468	300
200	350	520	340	520	340	-	-
250	450	570	395	575	405	-	-
300	500	620	445	620	460	-	-
350	550	670	505	678	520	-	-
400	600	730	565	738	580	-	-
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	-	-	-	-

Water Treatment



Dimensional drawings

Separate version DN 10 ÷ DN25 PN16 – PN40

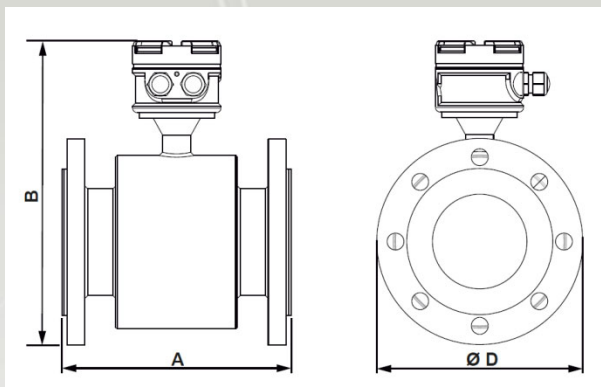


DN (mm)	A (mm)	PN 16 – PN 40	
		B (mm)	ØD (mm)
10	200	235	90
15		235	95
20		240	105
25		240	115

Water Treatment

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	-	-	-	-

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