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

FLOW METERS DI MPO 02



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 02 uses a 16-bit microprocessor, fast processing and high accuracy.

Dual direction measurement function:

- o Forward direction flow-rate
- o 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

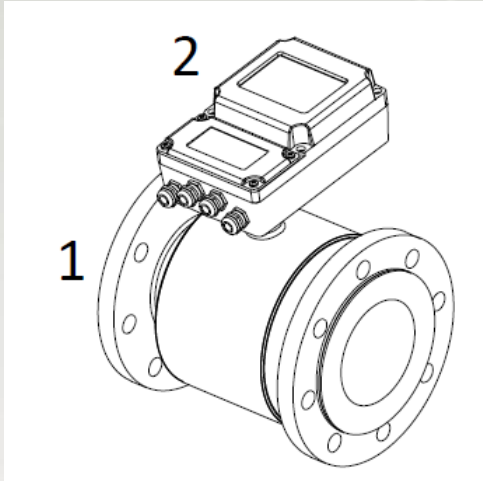
- **Flow Rate Range:** DI MPO 02 is able to process signals from fluids with flow rates of up to 10m / s in both directions (bidirectional meter).
- **Sensor range:** DN10 ÷ DN1000
- **Sensor material:** SS321
- **Housing material:** Aluminium
- **Electrodes material:** SS316L - Hastelloy C - Titanium - Tantalum - Platinum
- **Measure range:** <0,1m³/h ÷ >28000m³/h
- **Accuracy:** ±0,5% standard; ±0,2% optional
- **Repeatability:** ±0,1%
- **Fluid conductivity:** >5µS/cm.
- **Power supply:** 85÷265Vac, 24Vdc, 12Vdc.
- **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 or Hart (opt.)
- **Output: 4÷20mA:** 0÷750 ohm load.
- **Frequency output:** 0,1÷5000 Hz
- **Pulse output:** 24Vdc pull up open collector or galvanically isolated open collector (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
- **Start-up Time:** 0.5 seconds.
- Low Flow Cutoff Adjustable between 0.0 and 9.9%Q_{max}. Below selected value, output is driven to the zero flow rate signal level.
- **Humidity Limits:** 0-100% RH to 150 °F (65 °C), not condensing.
- **Damping Adjustable** between 0.1 and 99 seconds.
- Compact version IP rating IP66, converter provided with transparent protection cover
- Remote version IP rating sensor IP67, IP68 (optional) converter IP66 provided with transparent protection cover
- 85 ÷ 265 Vac o 12; 24 Vdc power supply

Water Treatment



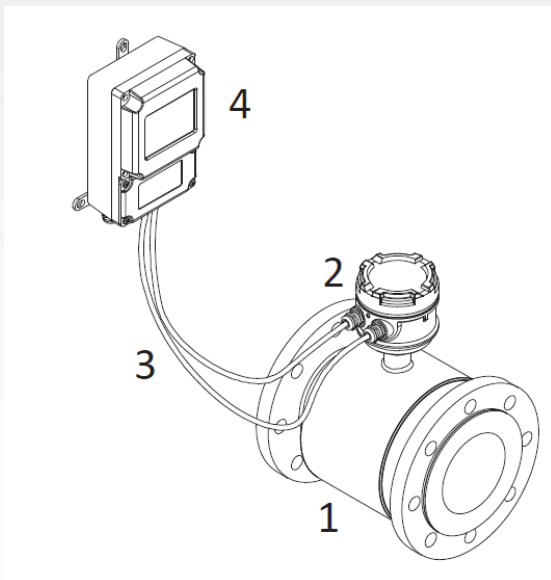
2 available versions

- Compact version



- 1- Sensor
- 2- Converter

- Separate version



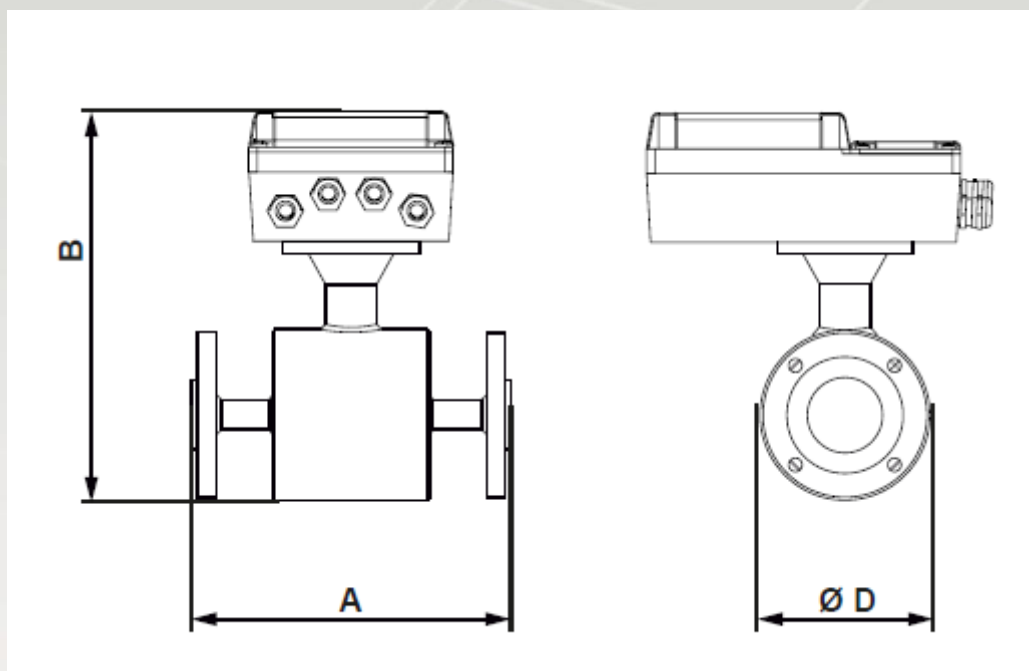
- 1- Sensor
- 2- Conexion case
- 3- Connection cables
- 4- Converter wall mounting

Water Treatment



Dimensional drawings

Compact version DN 10 ÷ DN80 PN16 – PN40

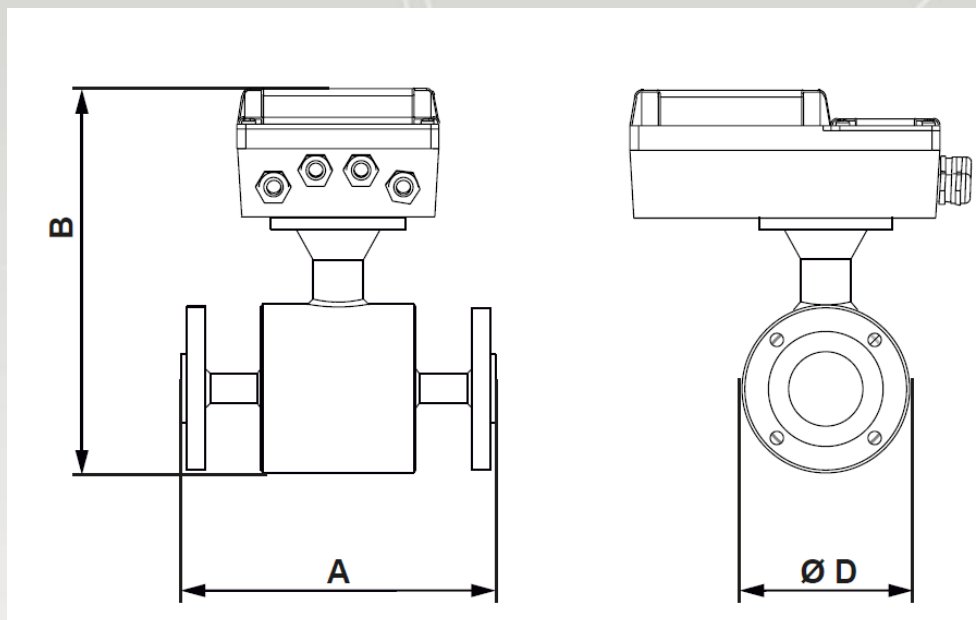


DN (mm)	A (mm)	PN16 – PN 40	
		B (mm)	ØD (mm)
10	200	235	90
15		235	95
20		240	105
25		240	115
32		251	140
40		270	150
50		280	165
65		298	185
80		315	200

Water Treatment

Dimensional drawings

Compact version DN 100 ÷ DN1000 PN10 - PN16 - PN40



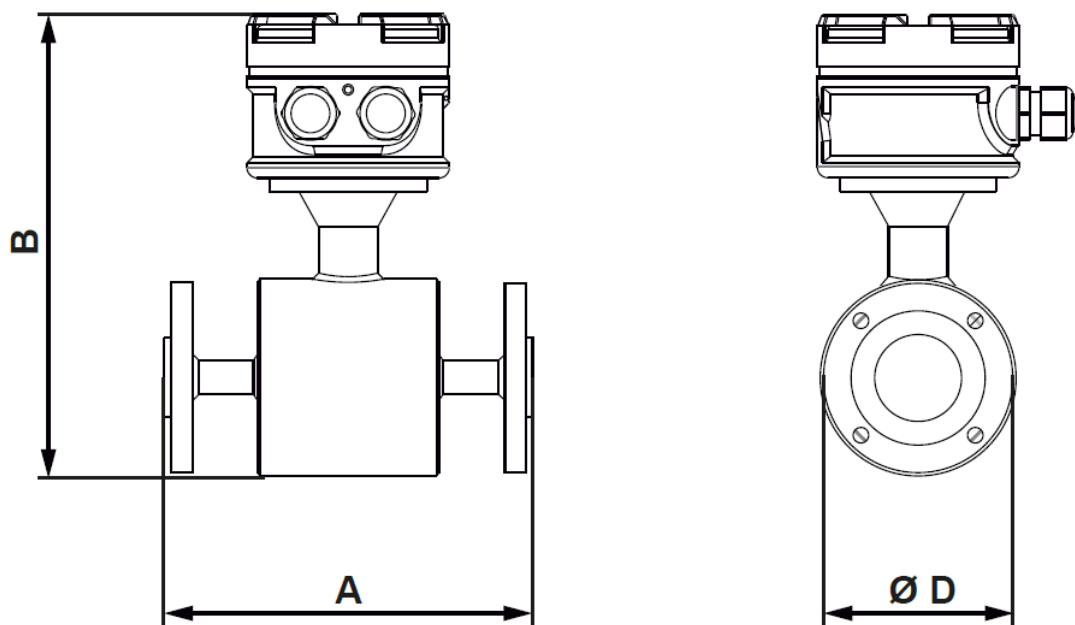
DN (mm)	A (mm)	PN 10		PN 16		PN 40	
		B (mm)	øD (mm)	B (mm)	øD (mm)	B (mm)	øD (mm)
100	250	-	-	400	220	347	235
125	250	-	-	420	250	372	270
150	300	-	-	460	285	405	300
200	350	457	340	457	340	-	-
250	450	507	395	512	405	-	-
300	500	557	445	557	460	-	-
350	550	607	505	615	520	-	-
400	600	667	565	675	580	-	-
450	600	717	615	730	640	-	-
500	600	767	670	787	715	-	-
600	600	867	780	-	-	-	-
700	700	867	895	-	-	-	-
800	800	1102	1015	-	-	-	-
900	900	1207	1115	-	-	-	-
1000	1000	1297	1230	-	-	-	-

Water Treatment



Dimensional drawings

Separate version DN 10 ÷ DN25 PN16 - PN40



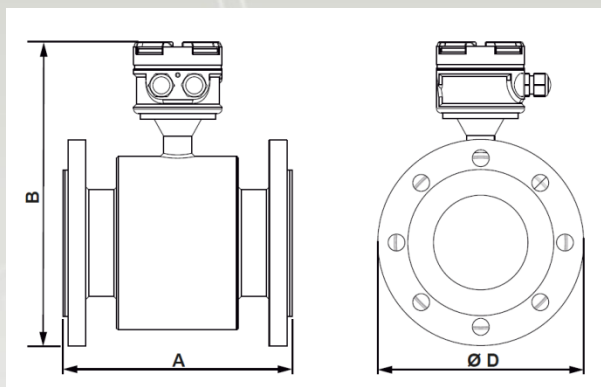
DN (mm)	A (mm)	PN 16 - PN 40	
		B (mm)	ØD (mm)
10	200	235	90
15		235	95
20		240	105
25		240	115

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	468	375
250	450	505	395	510	405	533	450
300	500	550	445	558	460	586	515
350	550	605	505	613	520	643	580
400	600	665	565	673	580	713	660
450	600	715	615	728	640	751	685
500	600	765	670	785	715	805	755
600	600	870	780	900	840	810	890
700	700	987	895	995	910	-	-
800	800	1100	1015	1105	1025	-	-
900	900	1202	1115	1207	1125	-	-
1000	1000	1293	1230	1306	1255	-	-

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