

CONTATORI WOLTMANN PER ACQUA FREDDA Cod.4571.52.xx

MID (Measuring Instruments Directive 2014/32/UE)



(Q3) portata costante m³/h	(Q1) portata min m³/h	largh. mm	DN	codice
40	0,400	200	50	4571.52.050
63	0,504	200	65	4571.52.065
100	0,625	225	80	4571.52.080
160	0,800	250	100	4571.52.100
250	1,563	250	125	4571.52.125
400	2,000	300	150	4571.52.150
630	5,040	350	200	4571.52.200
LANCIA IMPULSI REED SWITCH				4571.52.01

- Nella configurazione standard il contatore è predisposto per le letture remote
- Possibilità di montaggio sia orizzontale che verticale
- Vernice a polvere epossidica
- Pesi ridotti

CARATTERISTICHE

- Ampio campo di misura
- Quadrante orientabile
- Possibilità di controllo elettronico dei parametri metrologici del contatore dell'acqua
- Struttura modulare
- Unità di misura rimovibile
- Principio di misura: **Turbina**
- Campo di misura/regolazione: **0,25÷1600 [m³/h]**
- Classe di precisione: **±2% VFS**
- Uscite disponibili: **Reed switch**
- Temperatura di esercizio: **Fino a 50 [°C]**
- Pressione massima: **16 [Bar]**
- Attacco: **Flangiato da DN40 a DN300**



IP68 counter (only for cold water) co-operates with NK transmitter and is placed in the copper cover, in the airtight casing closed with mineral glass.

Possibility of remote counting of water volume and low rate in the AMR system

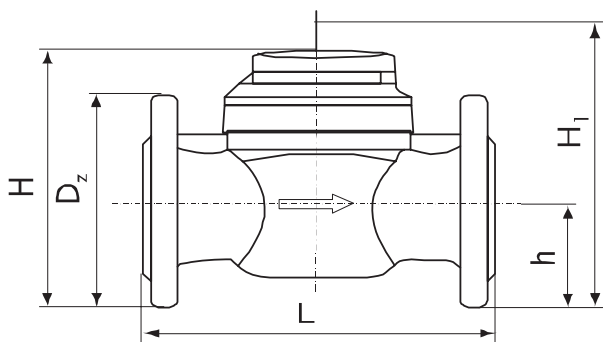


Tabela 1. TECHNICAL CHARACTERISTICS

Parameter													
Nominal diameter	DN	mm	40	50	65	80	100	125	150	200	250	300	
Temperature class (Working temperatures range)	T30 (0,1÷30°C), T50 (0,1÷50°C)		MWN (without transmitter) or MWN (with transmitter) in NK, NO, NKO, NKOP optio										
Constant flow rate	Q ₃	m³/h	25	40	63	100	160	250	400	630	1000	1600	
Overload flow rate	Q ₄	m³/h	31,25	50	78,75	125	200	312,5	500	787,5	1250	2000	
Transitional flow rate	Q ₂	m³/h	0,4	0,64	0,806	1	1,28	2,5	3,2	8,064	16	20,48	25,6
Minimal flow rate	Q ₁	m³/h	0,25	0,4	0,504	0,625	0,8	1,563	2	5,04	10	12,8	16
Starting flow rate	–	m³/h	0,15	0,15	0,2	0,25	0,25	0,5	1,0	1,5	3	8	
R measuring rate	Q ₃ /Q ₁	–	100	100	125	160	200	160	200	125	100	125	100
Coefficient	Q ₂ /Q ₁	–	1,6										
Max pressure lost	ΔP	kPa	ΔP10	ΔP16	ΔP40	ΔP10	ΔP25	ΔP25	ΔP25	ΔP16	ΔP10	ΔP10	

DN 40...DN 100 Reed Switch
pulse transmitter 100
DN 125 Reed
Switch pulse transmitter 1000

Clase de resistencia al perfil de caudal		—	—	UO, DO										
Indication range		—	m³	10 ⁶						10 ⁷				
Accuracy of indication		—	m³	0,0005						0,005		0,05		
Upper pressure limit		P _{max}	—	MAP16=(16bar)										
Working pressure range		—	bar	from 0,3 to 16										
Working position		—	—	H, V										
Border range error allowed		ε	%	±5% (Q ₁ ≤Q≤Q ₂) ±2 (Q ₂ ≤Q≤Q ₄) for 0,1≤T≤30°C ±3 (Q ₂ ≤Q≤Q ₄) for T>30°C										
NK Reed Switch pulse transmitter		—	dm³/ imp.	1000 DN125 (standard impulsion) 2,5; 10; 25; 100; 250						10000 (standard impulsion) 25; 100; 250; 1000; 2500; 250; 1000; 2500;				
Optoelectronic impulse transmitter NO**		—	dm³/ imp.	1						10			105,2632	
Dimension		L	mm	200	200	200	225	250	250	300	350	450	500	
		h	mm	65	72	83	95	105	120	135	160	193	230	
		H	mm	177	187	197	219	229	257	357	382	427	497	
		H ₁ ****	mm	227	287	297	239	349	377	582	607	652	722	
		D _z	mm	150	165	185	200	220	250	285	340	400	460	
Weight		without transmitter		kg	7,9	9,9	10,6	13,3/13,8***	15,6	18,1	40,1	51,1	75,1	103,1
		with transmitter NK NO			8,3	10,3	11	13,7/14,2***	16	18,5	40,5	51,5	75,5	103,5



*) Quality: NK- Reed Switch transmitter, NKP- water meter adapted for Reed Switch, NO- optoelectronic transmitter, NKO- optoelectronic and Reed Switch transmitter, KNOP- water meter adapted for optoelectronic and Reed Switch transmitter.

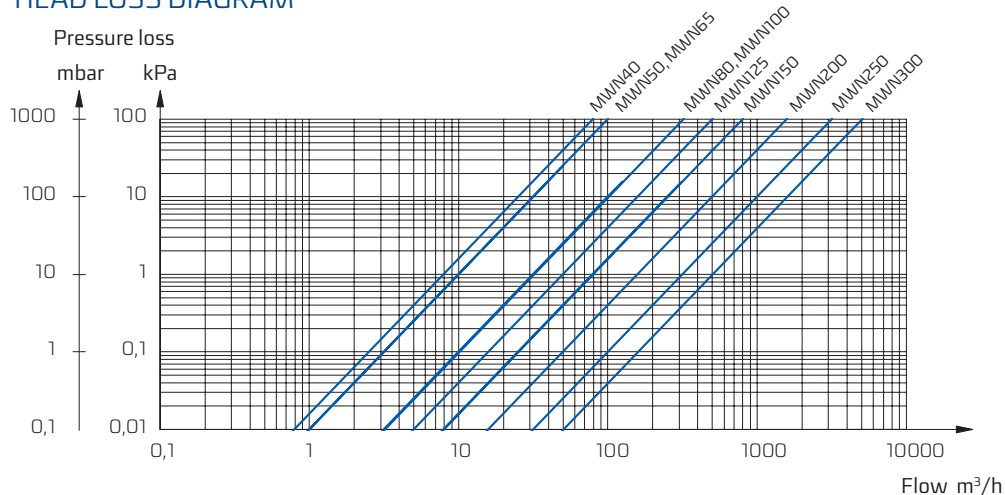
***) Only for T30 and T50.

****) On request.

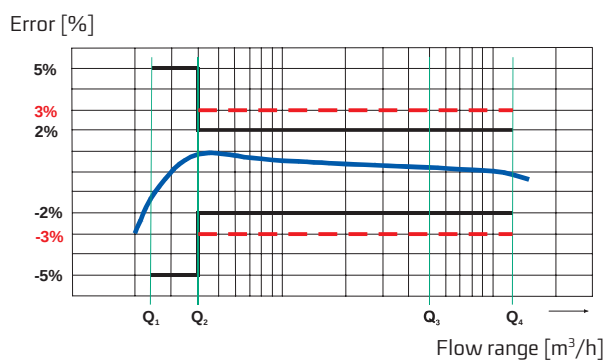
*****) Space for measuring insert removal.

TFlange drilling according to PN-EN 1092-2 (PN10), DIN2532, DIN2501 (NP10), BS4504 (NP10) on special request PN16 and PN25 quality for chosen sizes.

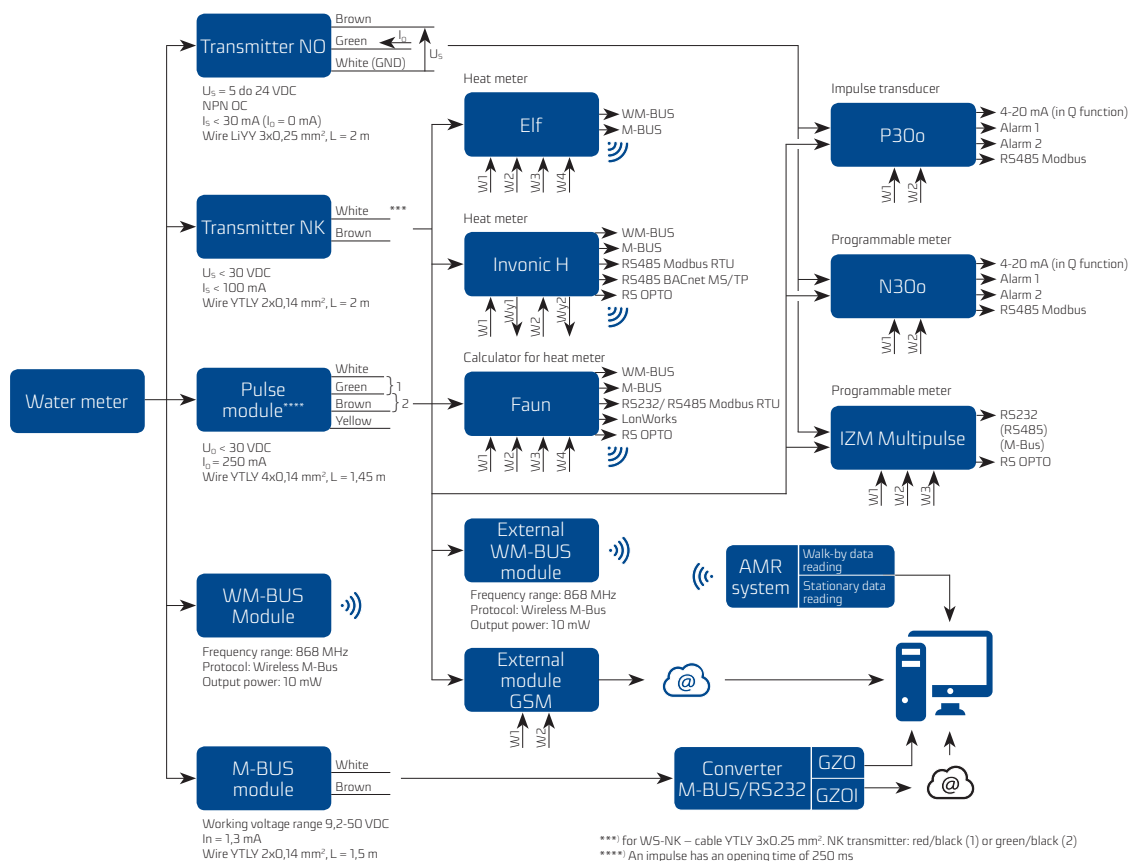
HEAD LOSS DIAGRAM



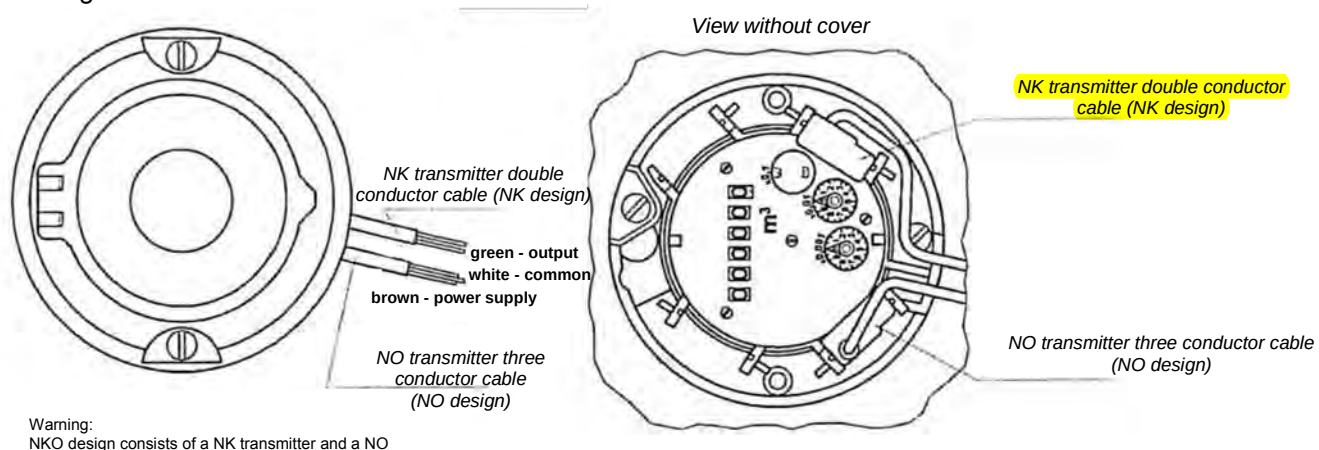
TYPICAL ERROR DIAGRAM



CONNECTION EXAMPLES FOR IMPLEMENTATION REMOTE INDICATION TRANSMITTING AND MEASURING THE FLOW RATE



Flanged water meter



Extension of transmitter cable

In order to extend the standard transmitter cable, use a cable with a single conductor diameter of at least 0.75 mm^2 taking into account the recommendation, that the total impedance of the extended section should not be higher than 500 Ohm. See to it that the extended cable does not cross with the existing layout of power supply or automatic control cables. Warning: Use possibly the shortest extensions.