

Счетчики холодной воды роторно-поршневые RTKD-M/RTKD-M-CC, RTKD-L-M/RTKD-L-M-CC

Технические характеристики

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Россия +7(495)268-04-70

Казахстан +(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: zrn@nt-rt.ru || сайт: <https://zenner.nt-rt.ru/>

RTKD-M / RTKD-M-CC

Rotary piston dry-dial meter for cold water

Available with flood-proof (IP 68) hermetically seal glass/copper register

The RTKD positive displacement meter records the flow rate according to the volumetric measuring principle. It offers a very high measuring range, excellent measuring stability and therefore guarantees extremely precise consumption recording.

The RTKD-M features a very low starting flow and is permitted for all installation positions.

The meter is equipped with an 8-digit dry-dial meter register and a modular disc. This enables electronic, non-reactive scanning and is the basis for remote reading of meter data via radio with LoRaWAN® or wM-Bus. A combined M-Bus/pulse module is also possible.



Performance characteristics at a glance

- Rotary piston dry-dial meter for any installation position (except overhead)
- Highest precision and reliability even in case of low flow rates
- Register cap made of UV-resistant polymer plastic
- Available with glass/copper register (IP68)
- Optional RTKD-N with 7-digit register 10 l/pulse
- Optional RTKD-N with 8-digit register 1 l/pulse
- Register rotatable 355°
- Operating pressure MAP 16
- Approved in accordance with MID

Applications

- For the consumption measurement of cold and clean drinking water or service water up to 50 °C

AMR options

- As standard with communication interface for EDC modules (Electronic Data Capture):
 - EDC LPWAN radio module (868 MHz) for LoRaWAN®
 - EDC wireless M-Bus radio module (868 MHz)
 - EDC combined M-Bus and pulse module

RTKD-M, RTKD-M-CC

Technical data

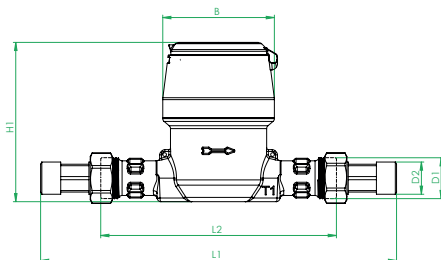
Permanent flowrate	Q ₃	m ³ /h	1,6	1,6	2,5	2,5	2,5	4
Comparable to permanent flowrate (EEC)	Q _n	m ³ /h	1	1	1,5	1,5	1,5	2,5
Attainable measuring range ¹	Q ₃ /Q ₁	R	250	250	400	400	250	400
Comparable to metrological class (EEC)	Class	-	> C	> C	> C	> C	> C	> C
Overload flowrate	Q ₄	m ³ /h	2	2	3,13	3,13	3,13	5
Transitional flowrate	Q ₂	l/h	10,2	10,2	10,0	10,0	16,0	16,0
Min. flowrate	Q ₁	l/h	6,4	6,4	6,3	6,3	10,0	10,0
Start-up flow rate	-	l/h	< 2	< 2	< 2	< 2	< 2	< 2
Display range	min.	l	0,02	0,02	0,02	0,02	0,02	0,02
	max.	m ³	R8 99.999,999	R8 99.999,999	R8 99.999,999	R8 99.999,999	R8 99.999,999	R8 99.999,999
Temperature range	-	°C	0,1 - 50	0,1 - 50	0,1 - 50	0,1 - 50	0,1 - 50	0,1 - 50
Operating pressure	MAP	bar	0,3 - 16	0,3 - 16	0,3 - 16	0,3 - 16	0,3 - 16	0,3 - 16
Pulse value	-	l/pulse	1	1	1	1	1	1
Pressure loss class at Q ₃	Δp	bar	Δ0,40	Δ0,40	Δ0,63	Δ0,63	Δ0,63	Δ0,63
Mechanical environmental condition	-	-	M2	M2	M2	M2	M2	M2
Climatic condition ²	-	°C	5 - 55	5 - 55	5 - 55	5 - 55	5 - 55	5 - 55
Flow profile sensitivity	-	-	U0/D0	U0/D0	U0/D0	U0/D0	U0/D0	U0/D0

Dimensions and weights:

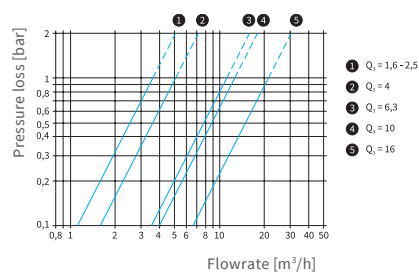
Nominal diameter	DN	mm	15	15	15	15	20	20
		inch	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"
Overall length without connectors	L2	mm	110/115	165/170	110/115	165/170	165/190	105
Overall length with connectors	L1	mm	190/195	245/250	190/195	245/250	261/286	201
Thread meter G x B	D1	inch	3/4"	3/4"	3/4"	3/4"	1"	1"
Thread connector R x	D2	inch	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"
Width	W	mm	89,5	89,5	89,5	89,5	90	90
Height approx.	H1	mm	122	122	122	122	135	135
Weight approx.	-	kg	0,86	0,98	0,86	0,98	1,28/1,35	1,15

¹ Other measuring ranges (R) on request

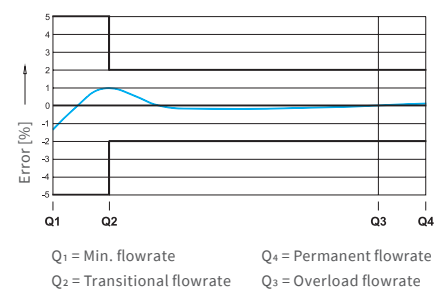
² Condensation possible (does not affect CC version)



Dimensions



Typical pressure loss curve



Typical error curve

Technical data

Permanent flowrate	Q_3	m ³ /h	4	6,3 ³	10 ³	10 ³	16 ³
Comparable to permanent flowrate (EEC)	Q_n	m ³ /h	2,5	3,5	6	6	10
Attainable measuring range ¹	Q_3/Q_1	R	400	200	315	315	315
Comparable to metrological class (EEC)	Class	-	> C	> C	> C	> C	> C
Overload flowrate	Q_4	m ³ /h	5	7,87	12,5	12,5	20
Transitional flowrate	Q_2	l/h	16,0	50,4	50,8	50,8	81,3
Min. flowrate	Q_1	l/h	10,0	31,5	31,8	31,8	50,8
Start-up flow rate	-	l/h	< 2	< 8	< 8	< 8	< 11
Display range	min.	l	0,02	0,02	0,02	0,02	0,02
	max.	m ³	R8 99.999,999	R8 99.999,999	R8 99.999,999	R8 99.999,999	R8 99.999,999
Temperature range	-	°C	0,1 - 50	0,1 - 50	0,1 - 50	0,1 - 50	0,1 - 50
Operating pressure	MAP	bar	0,3 - 16	0,3 - 16	0,3 - 16	0,3 - 16	0,3 - 16
Pulse value	-	l/pulse	1	1	1	1	1
Pressure loss class at Q_3	Δp	bar	$\Delta 0,63$	$\Delta 0,40$	$\Delta 0,63$	$\Delta 0,63$	$\Delta 0,63$
Mechanical environmental condition	-	-	M2	M2	M2	M2	M2
Climatic condition ²	-	°C	5 - 55	5 - 55	5 - 55	5 - 55	5 - 55
Flow profile sensitivity	-	-	U0/D0	U0/D0	U0/D0	U0/D0	U0/D0

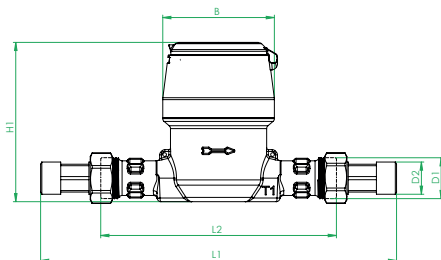
Dimensions and weights:

Nominal diameter	DN	mm	20	25	25	32	40
		inch	3/4"	1"	1"	1 1/4"	1 1/2"
Overall length without connectors	L2	mm	165/190	260	260	260	300
Overall length with connectors	L1	mm	261/286	374	374	384	428
Thread meter G x B	D1	inch	1"	1 1/4"	1 1/4"	1 1/2"	2"
Thread connector R x	D2	inch	3/4"	1"	1"	1 1/4"	1 1/2"
Width	W	mm	90	137	137	137	180
Height approx.	H1	mm	135	153	153	153	167
Weight approx.	-	kg	1,28/1,35	3,7	3,7	3,77	6,8

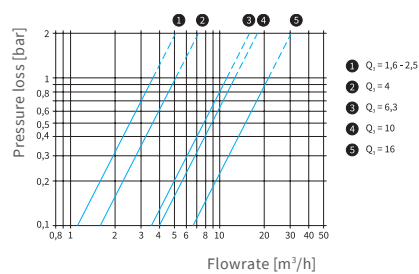
¹ Other measuring ranges (R) on request

² Condensation possible (does not affect CC version)

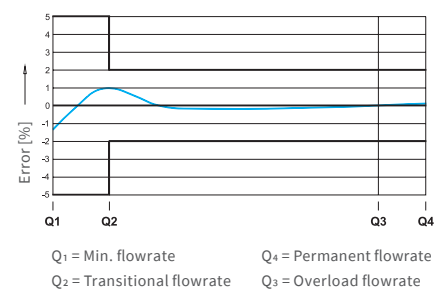
³ Only available in M-CC design



Dimensions



Typical pressure loss curve



Typical error curve

RTKD-L-M / RTKD-L-M-CC

Positive displacement dry dial meter for cold water in a plastic housing

The RTKD-L-M positive displacement meter records the flow rate according to the volumetric measuring principle. It offers a very high measuring range, excellent measuring stability and therefore guarantees extremely precise consumption recording. The RTKD-L-M features a very low starting flow and is permitted for all installation positions.

The meter is equipped with an 8-digit dry dial meter register and a modulator disc. This enables electronic, non-reactive scanning and is the basis for remote reading of meter data via radio with LoRaWAN® or wM-Bus. A combined M-Bus/pulse module is also possible.

The housing of the RTKD-L-M comprises glass-fibre reinforced plastic approved for drinking water with brass connection threads and is designed for an operating pressure of up to 16 bar.



Performance characteristics at a glance

- Positive displacement dry dial meter
- For any installation position (except for overhead)
- Highest precision and reliability even in case of low flow rates
- Register cap made of UV-resistant plastic
- Optionally available with copper-glass counter (IP 68)
- Housing made of glass-fibre reinforced polymer plastic
- Register rotatable 355°
- Operating pressure MAP 16
- Approved in accordance with MID

Applications

- For the consumption measurement of cold and unpolluted drinking water or service water up to 30°C

AMR options

- As standard with communication interface for EDC modules (Electronic Data Capture):
 - EDC LPWAN radio module (868 MHz) for LoRaWAN®
 - EDC wireless M-Bus radio module (868 MHz)
 - EDC- combined M-Bus and pulse module

RTKD-L-M (-CC)

Technical data

Permanent flowrate	Q_3	2.5	1.6	2.5	4	4
Attainable measuring range	Q_3/Q_1	400	250	400	400	400
Overload flowrate	Q_4	3.13	2	3.13	5	5
Transitional flowrate ²	Q_2	10.2	10.2	10.2	16.0	16.0
Min. flowrate ²	Q_1	6.4	6.4	6.4	10	10
Start-up flow rate	-	< 2	< 2	< 2	< 2	< 2
Display range	min.	0.02	0.02	0.02	0.02	0.02
	max.	R8 99,999.999	R8 99,999.999	R8 99,999.999	R8 99,999.999	R8 99,999.999
Temperature range	-	0.1 - 30	0.1 - 30	0.1 - 30	0.1 - 30	0.1 - 30
Operating pressure	MAP	0.3 - 16	0.3 - 16	0.3 - 16	0.3 - 16	0.3 - 16
Pulse value	-	1/10	1/10	1/10	1/10	1/10
Pressure loss class at Q_3	Δp	$\Delta 0.63$	$\Delta 0.40$	$\Delta 0.63$	$\Delta 0.40$	$\Delta 0.63$
Mechanical environmental condition	-	M2	M2	M2	M2	M2
Climatic condition ³	-	5 - 55	5 - 55	5 - 55	5 - 55	5 - 55
Flow profile sensitivity	-	U0/D0	U0/D0	U0/D0	U0/D0	U0/D0

Dimensions and weights:

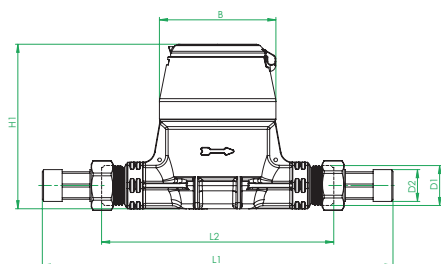
Nominal diameter	DN	15	15	15	20	20
		1/2"	1/2"	1/2" (7/8") ⁴	3/4"	3/4" (1 1/8") ⁴
Overall length without connectors ¹	L2	110/115	165/170	165/170	165	190
Overall length with connectors approx.	L1	195/200	250	250	261	285
Thread meter G x B	D1	3/4"	3/4"	3/4"	1"	1"
Thread connector R x	D2	1/2"	1/2"	1/2"	3/4"	3/4"
Width approx.	B	85	89.5	89.5	95	95
Height approx.	H1	129	120	120	135	135
Weight approx.	-	0.5	0.58	0.58	0.73	0.74

¹ Other measuring ranges (R) and overall lengths on request

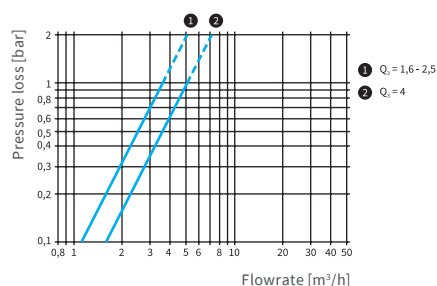
² The data refers to the attainable measuring range

³ Condensation possible

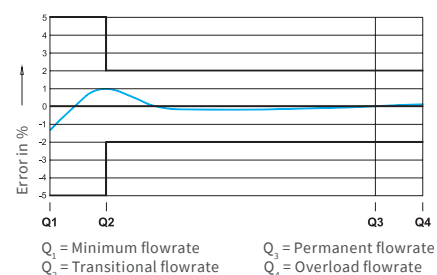
⁴ DN15 housing 170 mm with 7/8" and DN20 housing 190 mm with 1 1/8" thread possible



Dimensions



Typical pressure loss curve



Typical error curve

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Казахстан +(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

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