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ZENNER WATER METERS

		Class	Zenner Code	Type	Wet or Dry Dial	Installation	Sizes Available	Pulse capable	Maximum Temperature
Apartment Meters	Cold	B	ETK-M	Single Jet	Dry	Horizontal (B) Vertical (A)	15, 20mm	Yes	30°C
	Hot	B	ETW-M	Single Jet	Dry	Horizontal (B) Vertical (A)	15, 20mm	Yes	90°C
Class C	Cold	C	MNK-I-N	Multi-jet	Wet	Horizontal (C) Vertical (A)	15mm - 50mm	Yes	30°C
Class B	Cold	B	MTK-I-N	Multi-jet	Dry	Horizontal (B) Vertical (A)	15mm - 50mm	Yes	30°C
	Hot	B	MTW	Multi-jet	Dry	Horizontal (B) Vertical (A)	15mm - 50mm	No	90°C
	Hot	B	MTW-I	Multi-jet	Wet	Horizontal (B) Vertical (A)	15mm - 50mm	Yes	90°C
Volumetric Meter	Cold	C	RNK-RP-N	Rotary Piston	Dry	Horizontal (C) Vertical (C)	15mm - 40mm	Yes	30°C
Woltman	Cold	C	WPHD	Woltman - Helix Drive	Dry	Horizontal only	65mm - 150mm	Yes	30°C
Woltman	Cold	B	WPH-N	Woltman - Helix Drive	Dry	Horizontal (B) Vertical (A)	65mm - 200mm	Yes	30°C
Woltman	Hot	B	WPH-N 90°	Woltman - Helix Drive	Dry	Horizontal (B) Vertical (A)	65mm - 200mm	Yes	90°C

WET VERSUS DRY DIAL

Wet Dial
- The counters rollers and pointers are surrounded by the measuring fluid.
- Impeller shaft is connected directly with the counter.
- Advantage is no friction lose occurs resulting in very low starting flows.
- Cannot be influenced magnetically.
- Disadvantages are that fine particles can settle on the register and workings affecting performance and being able to read meter.

Dry Dial
- Counter is hermetically encapsulated and does not come into contact with the measuring fluid.
- Turbine and counter connected with magnetic coupling.
- Polluted water doesn't affect counter.
- Can be effected by magnetic interference.
- Has higher starting flows compared to wet dial meters and is generally more expensive.

Recommended Installation
- Must be installed with a minimum of 3 x DN of straight pipe before meter.
- Must be installed with a minimum of 2 x DN of straight pipe after meter.
- Isolation valves immediately before or after the meter should be sluice valves (not butterfly valves)

Recommended Installation for Bulk Water Meters Only (WPH & WPHD)
• Must be installed with a minimum of 3 x DN of straight pipe before meter.
• Must be installed with a minimum of 2 x DN of straight pipe after meter.
• Isolation valves immediately before or after the meter should be ball valves (not butterfly valves).

				Application	Features
Apartment Meters	Hot	B	ETK-M	Individual Apartments (cold water)	• Compact design able to be installed in confined areas • 8 – digit roller counter guarantees correct reading • Very low starting flow rate • Class B in both horizontal and vertical positions
	Cold	B	ETW-M	Individual Apartments (hot water)	
Class C (Multi-jet)	Cold	C	MNK-I-N	Domestic & Rural*	• No friction loss with wet dial construction • Very low starting flows • Cannot be influenced magnetically
Class B (Multi-jet)	Cold	B	MTK-I-N	Rural (or where dry dial required)	• Dry dial guarantees visibility of digit roller • Suitable in poor water quality applications
	Hot	B	MTW	Commercial	• Can measure water up to 90C
	Hot	B	MTW-I	Commercial	• Can measure water up to 90C • Offers remote readouts with pulse unit
Volumetric	Cold	C	RNK-RP-N	Commercial & Domestic (potable water)	• Precise measuring mechanism with protected counter roller • Very low starting flows • In-built strainer • Cannot be influenced magnetically • Body made from high quality brass
Woltman	Cold	C		Commercial	• Flow straighteners reduce influence of turbulence • High flow capacity with low pressure loss
Woltman	Cold	B		Commercial	• Low starting flow & wide measuring range
Woltman	Hot	B		Commercial	• Low starting flow & wide measuring range

✴ Not recommended for use where water quality is poor as wet dial construction. Particles can settle on the register and workings affecting performance and being able to read meter.

Code	Description	Size

ETK/ETW

APARTMENT WATER METERS
SINGLE-JET DRY DIAL METER WITH MODULAR COUNTER CLASS B

- Innovative counter
- Pulse Unit (Reed switch) for remote readout systems (sold separately).
- Standard 1 pulse per 1 litre
- For measuring consumption of individual apartments.
- For horizontal and vertical installation
- Can be installed vertically, but this reduces the accuracy of the meter
- Maximum pressure 1600kpa
- Working temperature 30° Cold, 90° Hot
- Includes 2 Water meter tails

Hydroflow code	Special Features	Size	Zenner code
WMZAMK15	Cold	15mm	136207 ETK-M
WMZAMK20	Cold	20mm	136209 ETK-M
WMZAMW15	Hot	15mm	136208
WMZAMW20	Hot	20mm	136210
WMZAM-N	Reed Switch/Pluse for Apartment Meters Hot/Cold		107423 ETK-M/ETW-M

MNK-I-N

MULTI-JET WET DIAL METERS FOR COLD WATER CLASS C

- Wet dial counter construction
- Viewing window made of high-quality UV proof plastic.
- For horizontal piping
- Can be installed vertically, but this reduces the accuracy of the meter
- Pulse Unit (Reed switch) for remote readout systems (sold separately)
- Standard 1 pulse per 100 litres
- Working temperature 30°
- Maximum pressure 1600kpa
- Includes 2 Water meter tails

Hydroflow Code	Special Features	Size	Zenner Code
WMZC15	Cold	15mm	136385 MNK
WMZC20	Cold	20mm	136386 MNK
WMZC25	Cold	25mm	136387 MNK
WMZC32	Cold	32mm	136388 MNK
WMZC40	Cold	40mm	136449 MNK
WMZC50	Cold Not pulse capable	50mm	136450 MNK
WMZMNK-N	Reed Switch/Pulse for MNK-N		111512

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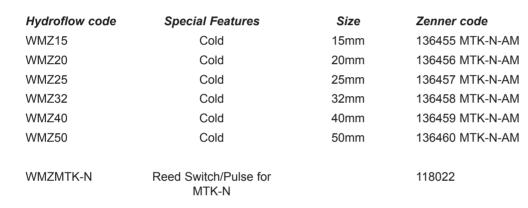| Code	Description	Size

MTK-I-N

MULTI-JET DRY DIAL METER FOR COLD WATER CLASS B

- Counter construction dry dial
- Viewing window made of high-quality UV-proof plastic
- For horizontal piping
- Can be installed vertically, but this reduces the accuracy of the meter
- Pulse Unit (Reed switch) for remote readout systems (sold separately)
- Standard 1 pulse per 10 litres OR 100 litres
- Working temperature 30°
- Maximum pressure 1600kpa
- Includes 2 Water meter tails

Hydroflow code	Special Features	Size	Zenner code
WMZ15	Cold	15mm	136455 MTK-N-AM
WMZ20	Cold	20mm	136456 MTK-N-AM
WMZ25	Cold	25mm	136457 MTK-N-AM
WMZ32	Cold	32mm	136458 MTK-N-AM
WMZ40	Cold	40mm	136459 MTK-N-AM
WMZ50	Cold	50mm	136460 MTK-N-AM
WMZMTK-N	Reed Switch/Pulse for MTK-N		118022

MTW

MULTI-JET DRY DIAL METERS FOR HOT WATER CLASS B

- Viewing window made of high-quality UV-proof plastic
- Hermetically sealed roller capsule
- For horizontal piping
- Can be installed vertically, but this reduces the accuracy of the meter
- Not pulse capable
- Working temperature 90°
- Maximum pressure 1600kpa
- Includes 2 Water meter tails

Hydroflow code	Zenner code	Size	Special features
WMZ15H	136563 MTW-AM	15mm	Warm
WMZ20H	136564 MTW-AM	20mm	Warm
WMZ25H	136565 MTW-AM	25mm	Warm
WMZ32H	136566 WTW-AM	32mm	Warm
WMZ40H	136567 MTW-AM	40mm	Warm
WMZ50H	136568 MTW-AM	50mm	Warm

Code	Description	Size

MTW-I

MULTI-JET DRY DIAL METERS FOR HOT WATER WITH PULSER CLASS B

- Viewing window made of high-quality UV-proof plastic
- For horizontal piping
- Pulse unit (Reed switch) for remote readout systems
- Standard 1 pulse per 100 litres
- Working Temperature 90°
- Maximum Pressure 1600kPa
- Includes 2 Water meter tails

Hydroflow code	Zenner code	Size	Special features
WMZ15HP	142257 MTWI-AM	15mm	Warm, Pulse Capable
WMZ20HP	142258 MTWI-AM	20mm	Warm, Pulse Capable
WMZ25HP	142259 MTWI-AM	25mm	Warm, Pulse Capable
WMZ32HP	142260 MTWI-AM	32mm	Warm, Pulse Capable
WMZ40HP	129290 MTWI-AM	40mm	Warm, Pulse Capable
WMZ50HP	129291 MTWI-AM	50mm	Warm, Pulse Capable

RNK-RP-N

VOLUMETRIC ROTARY-PISTON METER FOR COLD POTABLE WATER WITH PROTECTED DIAL AND BRASS BODY CLASS C

-
- Counter with protected rollers
- Body made from high-quality brass
- Working temperature 30°C
- Maximum pressure 1600kpa
- Display range 0.02 to 9.999 m³
- Proven accuracy in any installation position
- Integrated tamper-proof check valve
- Pulse Unit (Reed switch) for remote readout systems, sold separately.
- Standard 1 pulse per 0.5 litres
- Includes 2 Water meter tails

Hydroflow code	Special Features	Size	Zenner code
WMZVRP15	Cold	15mm	138496 RNK-RP-N
WMZVRP20	Cold	20mm	138497 RNK-RP-N
WMZVRP25	Cold	25mm	141063 RNK-RP-N
WMZVRP32	Cold	32mm	141064 RNK-RP-N
WMZVRP40	Cold	40mm	141065 RNK-RP-N
WMZVRP-N	Reed Switch/Pulse for Volumetric Rotary-piston Meters 15-20mm		134908
WMZVRPK-N	Reed Switch/Pulse for Volumetric Rotary-piston Meters 25-40mm		146172

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SECTION 9

Code	Description	Size

WPHD

WOLTMAN HORIZONTAL REMOVABLE WATER METER CLASS C

- High flow capacity with low pressure loss and flow rate range.
- Flow straighteners reduce the influence of turbulence by other sources.
- Epoxy coated cast iron body and stainless steel bolts.
- Removable measuring insert
- Hydraulic bearing for measuring stability
- Pulse Unit (Reed switch) for remote readout systems, sold separately.
- Standard 1 pulse per 100 litres
- Protective metal cover
- Dry dial counter with large number rollers and condensation protection for visibility
- Working temperature 30ºC
- Maximum pressure 1600kpa
- For horizontal installation only.

Hydroflow code	Special Features	Size	Zenner code
WMZWPHD65		65mm	136493 WPHD
WMZWPHD80		80mm	136494 WPHD
WMZWPHD100		100mm	136495 WPHD
WMZWPHD150		150mm	136496 WPHD
WMZWPH-N	Reed Switch/Pulse for Woltman Meters WPHD Type		122141

WPH-N

WOLTMAN METER WITH PARALLEL TURBINE SHAFT CLASS B

- Low starting flow, high overload security
- Wide measuring range
- Removable measuring insert
- Low head loss
- Epoxy coated cast iron body.
- Hydraulic bearing for measuring stability
- Pulse Unit (Reed switch) for remote readout systems, sold seperately.
- Standard 1 pulse per 100 litres
- Protective metal cover
- Dry dial counter with large number rollers and condensation protection for visibility
- For cold water up to 30ºC
- For horizontal, vertical and inclined installation positions
- Can be installed vertically, but this reduces the accuracy of the meter.

Hydroflow code	Special features	Size	Zenner code
WMZWPH65	Cold	65mm	132584 WPH
WMZWPH80	Cold	80mm	132585 WPH
WMZWPH100	Cold	100mm	132586 WPH
WMZWPH150	Cold	150mm	132588 WPH
WMZWPH200	Cold	200mm	132589 WPH
WMZWPH-N	Reed Switch/Pulse for Woltman Meters WPH		122141

Code	Description	Size

WPH-N 90°

WOLTMAN METER WITH PARALLEL TURBINE SHAFT CLASS B

- Low starting flow, high overload security
- Wide measuring range
- Removable measuring insert
- Low head loss
- Epoxy coated cast iron body.
- Hydraulic bearing for measuring stability
- Pulse Unit (Reed switch) for remote readout systems, sold seperately.
- Standard 1 pulse per 100/1000 litres
- Protective metal cover
- Dry dial counter with large number rollers and condensation protection for visibility
- Working temperature 90ºC
- For horizontal, vertical and inclined installation positions
- Can be installed vertically, but this reduces the accuracy of the meter

Hydroflow Code	Special Features	Size	Zenner Code
WMZWPHT65	Hot	65mm	144507 WPH
WMZWPHT80	Hot	80mm	143355 WPH
WMZWPHT100	Hot	100mm	144508 WPH
WMZWPHT150	Hot	150mm	144509 WPH
WMZWPHT200	Hot	200mm	144510 WPH
WMZWPH-N	Reed Switch/Pulse for Woltman Meters WPH		122141

WATER METER TAILS

WMT15	15mm
WMT20	20mm
WMT25	25mm
WMT32	32mm
WMT40	40mm
WMT50	50mm

SECTION 9

ZENNER
All that counts.

The smart way of metering

AMR System by ZENNER
in accordance with the current OMS Standard

Monitor Water, Gas, Electrical, Heating and Cooling meters all from one central computer

Benefits of AMR systems
- Efficient reading process
- Shorter billing intervals
- Increased data quality and improved data management
- Ability to monitor consumption
- Visualisation of savings potential
- Measures to optimise consumption
- Resource conservation and environmental protection

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Code	Description	Size

ZENNER AMR SYSTEM

MULTI-JET MTKD DRY DIAL COLD
AMR W/Meter Class B Cold Complete EDC

WMZ15E		15mm
WMZ20E		20mm
WMZ25E		25mm
WMZ32E		32mm
WMZ40E		40mm
WMZ50E		50mm

MULTI-JET MTKD DRY DIAL HOT
AMR W/Meter Class B Hot Complete EDC

WMZ15HE		15mm
WMZ20HE		20mm
WMZ25HE		25mm
WMZ32HE		32mm
WMZ40HE		40mm

SINGLE-JET ETKD METERS COLD
Apartment Meter Class B Cold AMR

WMZETKD15M		15mm
WMZETKD20M		20mm

Apartment Meter Class B
Cold AMR EDC Complete

WMZETKD15E		15mm
WMZETKD20E		20mm

SINGLE-JET ETWD METERS HOT
Apartment Meter Class B Hot AMR

WMZETWD15M		15mm
WMZETWD20M		20mm

Apartment Meter Class B
Hot AMR EDC Complete

WMZETWD15E		15mm
WMZETWD20E		20mm

POSITIVE DISPLACEMENT RTKD METERS
AMR W/Meter Volumetric Cold EDC Complete

WMZV15E		15mm
WMZV20E		20mm

MUTILOGS WITH M-BUS INTERFACE

WMZLOG1	Multilog M-Bus 1l/pulse (129517)	
WMZLOG10	Multilog M-Bus 10l/pulse (128173)	
WMZLOG100	Multilog M-Bus 100l/pulse (129146)	

MULTIPULSE" WITH M-BUS COMMUNICATION INTERFACE

WMZPULSE1	Multipulse M-Bus 1l/pulse (123603)	

MULTI-JET MTKD DRY DIAL COLD
AMR W/Meter Class B Cold Complete EDC

WMZ15E		15mm
WMZ20E		20mm
WMZ25E		25mm
WMZ32E		32mm
WMZ40E		40mm
WMZ50E		50mm

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SECTION 9

Code	Description	Size

MULTI-JET MTKD DRY DIAL HOT
AMR W/Meter Class B Hot Complete EDC

WMZ15HE	15mm
WMZ20HE	20mm
WMZ25HE	25mm
WMZ32HE	32mm
WMZ40HE	40mm

SINGLE-JET ETKD METERS COLD
Apartment Meter Class B Cold AMR

WMZETKD15M	15mm
WMZETKD20M	20mm

APARTMENT METER CLASS B COLDAMR EDC COMPLETE

WMZETKD15E	15mm
WMZETKD20E	20mm

SINGLE-JET ETWD METERS HOT
Apartment Meter Class B Hot AMR

WMZETWD15M	15mm
WMZETWD20M	20mm

APARTMENT METER CLASS B HOT AMR EDC COMPLETE

WMZETWD15E	15mm
WMZETWD20E	20mm

POSITIVE DISPLACEMENT RTKD METERS
AMR W/Meter Volumetric Cold EDC Complete

WMZV15E	15mm
WMZV20E	20mm

MUTILOGS WITH M-BUS INTERFACE

WMZLOG1	Multilog M-Bus 1l/pulse (129517)
WMZLOG10	Multilog M-Bus 10l/pulse (128173)
WMZLOG100	Multilog M-Bus 100l/pulse (129146)

MULTIPULSE" WITH M-BUS COMMUNICATION INTERFACE

WMZPULSE1	Multipulse M-Bus 1l/pulse (123603)
WMZPULSE10	Multipulse M-Bus 10l/pulse (123602)
WMZPULSE100	Multipulse M-Bus 100l/pulse (122901)
WMZPULSE1000	Multipulse M-Bus 1000l/pulse (123601)

CABLES

WMZOPT	USB Optical Head Cable (122655)
WMZPCZCOM	PC TO ZCOM Cable (114674)

M-BUS MASTER/LEVEL CONVERTER

WMZCOM32	M-Bus-Converter ZCOM330 (32/16) (114305)
WMZCOM250	M-Bus-Converter ZCOM330 (250/125) (114304)

ZENNER

Code   Description   Size

EDC MODULE
WMZEDCT1B   M-Bus Module EDC-C T1 B (140811)

PDC MODULES
WMZPDC   Zenner Pulse Data Capture Module (150368)
WMZPDC1   Zenner Pulse Data Capture Module (150368)

MINOCONNECT RADIO:
WMZMINO   Zenner Minoconnect Bluetooth Radio Set (129242)

METER READER LIGHT
WMZSWS   Zenner SW MeterReaderLight S (145706)
WMZSWM   Zenner SW MeterReaderLight M (145707)
WMZSWL   Zenner SW MeterReaderLight L (145708)

GLOBAL METER MANAGER
WMZGMMCON   GMM ConfigurationManager (800707)
WMZGMMSER   GMM ServiceManager (800708)
WMZGMMSYS   GMM SystemManager (800712)
WMZGMMSYSL   GMM SystemManagerLight (800767)