

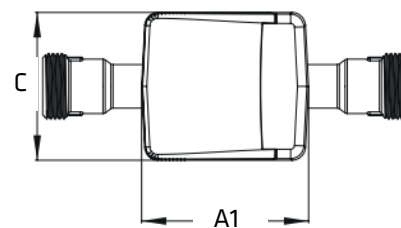
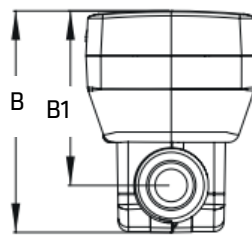
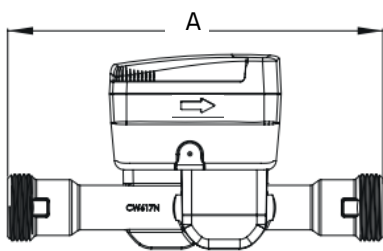
TOPAS SONIC

Residential water meter

Technical datasheet
 Technisches Datenblatt
 Fiche technique
 Scheda tecnica



1. Technical measurement data and dimensions	Unit of measure	Diameter DN (mm)					
		15	20	25	32	40	50
Nominal flow Q3	m ³ /h	2.5	4	10	10	16	25
Maximum flow Q4	m ³ /h	3.125	5	12.5	12.5	20	31.25
Transition flow Q2	L/h	8	12.8	32	32	51.2	80
Minimum flow Q1	L/h	5	8	20	20	32	50
Starting Flow	L/h	2.5	4	10	10	16	25
Ratio Q3/Q1	-	500	500	500	500	500	500
Total length (A)	mm	110	190	260	260	300	300
Height (B1)	mm	77	77	77	77	77	77
Total Height (B)	mm	98	98	98	101	107	115
Width (C)	mm	76	76	76	76	76	76
Housing Length (A1) (mm)	mm	87	87	87	87	87	87
Weight (kg)	kg	0.8	1	1.4	1.5	1.9	2.4
Thread	-	G3/4" B	G1" B	G1 1/4" B	G1 1/2" B	G2" B	G2 1/2" B



2. Power supply

Battery powered	3.6 VDC Lithium batteries / supercap.
Lifetime	up to 16 years ¹ (15 years operation + 1 year storage)

¹ depending on sending interval of radio telegram, telegram length and operating temperature

3. Storage conditions

Storage temperature	from -20°C to +70°C (max. 2 weeks with T>35°C) from -13°F to +158°F (max. 2 weeks with T>95°F)
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4. Operating conditions

Nominal pressure	PN 16
Protection class	IP 68



Medium	potable water	
Medium temperature	from 0.1°C to +50°C	from 32°F to +122°F
Environment temperature	from 1°C to +70°C	from 34°F to +158°F
Environment class	B (Indoor installation) / O (Outdoor installation)	
Mechanical class	M1	
Electromagnetic class	E2	
Sensitivity class	U0D0	
Flow Measurement	bi-directional	

5. Technical data display

Display indication	LCD 10 digits
Units	m ³ , L, hour, min, sec
Value display	Volume, Flow, Reverse flow, Display test, Events status, F/W version
Events codes	Reverse flow, Low battery, Leakage, Air bubbles, Burst, Frost, Heat, Dry, Over temperature, No consumption

6. Communication interfaces

Wired communication (cable length 1.5m)	M-Bus
Wireless communication	WM-Bus 434MHz (OMS v4) T1 mode WM-Bus 868MHz (OMS v4) T1 mode NFC (configuration) LoRaWAN

7. Modifiable parameters with ParamApp (Android application)

Display sequence duration	Net volume, Forward volume, Reverse volume, Actual flow rate
Measurement unit	Volume, Flow rate
Communication M-Bus	WM-Bus telegram interval, Wired M-Bus Baudrate, Primary address, Secondary Address
Pulse output	Pulse length, pulse weight

8. Approvals and certificates / Certifications and regulations

MID Certification	MID 2014/32/UE
Drinking water approval	ACS, WRAS
Market approval	CE marking