

ELECTO SONIC



ELECTRONIC ULTRASONIC METER

ElecTo SONIC is the ultrasonic meter offering built-in data communication thanks to its innovative electronic register with multi-protocol radio communication facilities. It ensures excellent performance in all installation conditions and is insensitive to the chemical and physical characteristics of water. It is the ideal solution for Utility installations. Its wide 9-characters LCD display (digits and symbols) makes it very easy to read, while providing additional information to both users and operators. ElecTo SONIC supports remote data reading with fixed and mobile system, while offering maximum interoperability.

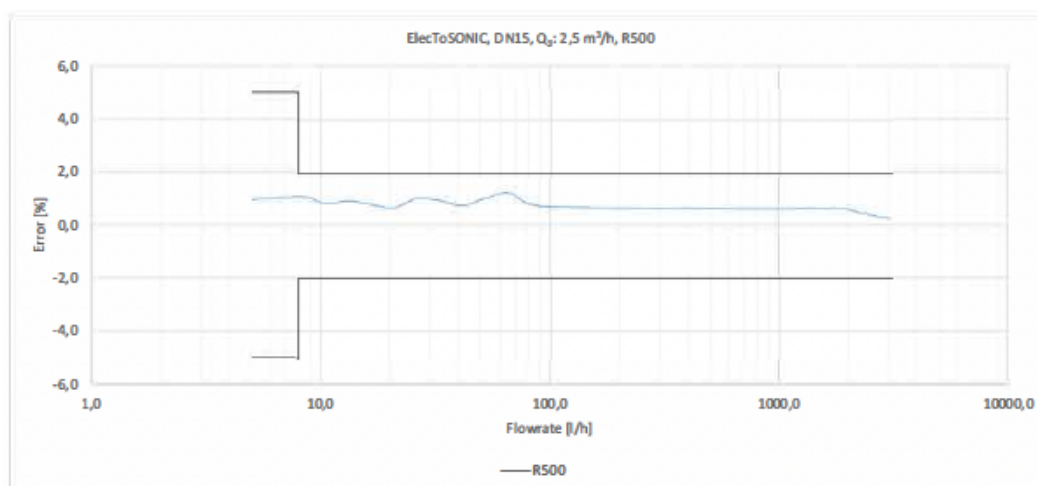
ELECTO SONIC

FEATURES

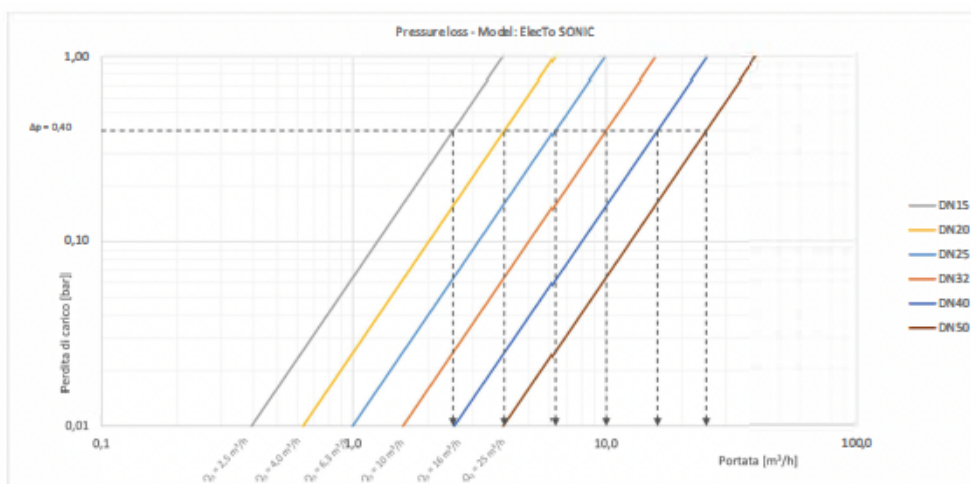
- Ultrasonic measuring technology
- DN: 15 to 50
- MID certificate: R MAX 800
- Health certifications available for a number of countries
- IP68 protection rating
- 9-characters display (digits and symbols)
- Datalogging with a storage capacity of over 11,000 values
- Integrated wM-Bus and LoRaWAN radio (battery life with default configuration 16 years)
- Integrated radio option NB-IoT (13 years by default in ELC0)
- Optimized antenna for maximum radio range
- Fault detection: low water temperature, low battery, empty line / air, overconsumption, no consumption, reversed meter, leakage, backflow and expiry of testing period
- Local NFC interface
- Programming and testing kit available upon request
- For further information on electronic register and radio transmission functions, please refer to the instruction manual



TYPICAL ERROR CURVE



HEAD LOSS DIAGRAM



METROLOGICAL PERFORMANCE

Size	mm	15	20	25
	in	½	¾	1

Module B no.	IT-041-22-2213
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Module D no.	0119-SJ-A010-08
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Q ₃ /Q ₁ = R Referred to installation position	Any ≤ 500	Any ≤ 800	Any ≤ 500	Any ≤ 800
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MID standard performance *

Q ₃	m ³ /h	1,6	2,5	4,0	6,3
Q ₄	m ³ /h	2	3,13	5	7,88
R		315	500	315	500
Q ₁	l/h	5,08	5	7,94	12,60
Q ₂	l/h	8,13	8	12,7	20,16

* Other values of R available upon request.

TECHNICAL DATA

Maximum permissible error between Q ₁ and Q ₂ (excluded)	+/- 5%
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Maximum permissible error between Q ₂ (included) and Q ₄	+/- 2% with water temperature ≤ 30°C +/- 3% with water temperature > 30°C
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Temperature class	T50
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Flow profile sensitivity classes	U0 – D0
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Starting flow rate	l/h	2,5	4	7
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Head loss	ΔP40
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Nominal pressure	bar	16
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Maximum reading	m ³	999.999
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Minimum reading	l	0,001
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Indicative weight	kg	0,99	1,10	2,2
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METROLOGICAL PERFORMANCE

Size	mm	32	40	50
	in	1 ¼	1 ½	2

Module B no. IT-041-22-2213

Module D no. 0119-SJ-A010-08

Q₃/Q₁ = R
Referred to installation position
Any ≤ 800

MID standard performance *

Q ₃	m ³ /h	10	16	25
Q ₄	m ³ /h	12,50	20	31,25

R **500**

Q ₁	l/h	20	32	50
Q ₂	l/h	32	51,2	80

* Other values of R available upon request.

TECHNICAL DATA

Maximum permissible error
between Q₁ and Q₂
(excluded) +/- 5%

Maximum permissible error
between Q₂
(included) and Q₄ +/- 2% with water temperature ≤ 30°C
+/- 3% with water temperature > 30°C

Temperature class T50

Flow profile sensitivity
classes U0 – D0

Starting flow rate	l/h	10	16	25
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Head loss ΔP40

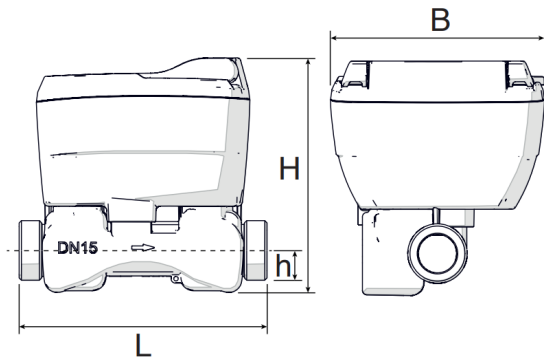
Nominal pressure bar 16

Maximum reading m³ 999.999

Minimum reading l 0,001

Indicative weight	kg	2,2	2,6	3,1
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DIMENSIONS



Size	mm	15	20	25
	in	½	¾	1

Thread	in	G ¾ B G 1 B	G 1 B	G 1 ¼ B
L	mm	110/145/165	105*/130/165/190	150/160/260
H	mm	104	105	119
h	mm	19	21,5	25
B	mm	95		

Size	mm	32	40	50
	in	1 ¼	1 ½	2

Thread	in	G 1 ½ B	G 2 B	G 2 ½ B
L	mm	160/260	200/300	300
H	mm	119	126	143
h	mm	29	34	38,5
B	mm	95		98

* only R500