



The **CZUS** family is based on the detection of flow volumes by two parts of ultrasonic sensors facing each other.

The use of this technology results in free passage of water, a minimum pressure loss and no moving parts.

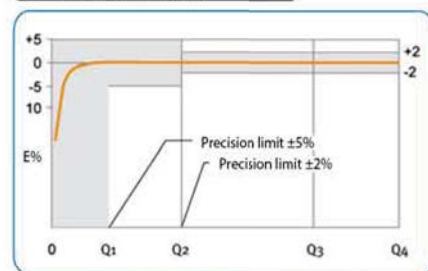
The R500 certification in all its diameters allows these units to be used for the registering of very low flow rates.

The start-up of this family is from 1.5 litres/hour.

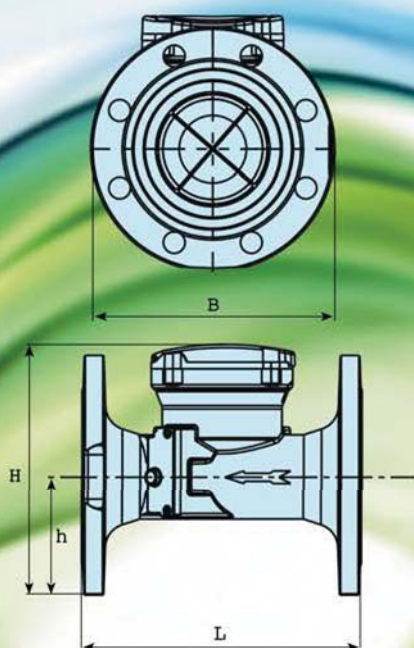


	RATIO	Q1 (l/h)	Q2 (l/h)	Q3 (m ³ /h)	Q4 (m ³ /h)
CZUS 40 (Threaded)	250/500	160/80	256/128	40	50
CZUS 50 (Threaded)	500	80	128	40	50
CZUS 50	500	80	128	40	50
CZUS 65	500	80	128	40	50
CZUS 80	500	125	200	63	80
CZUS 100	500	200	320	100	125
CZUS 150	500	500	800	250	313
CZUS 200	500	800	1280	400	500
CZUS 250	500	2000	3200	1000	1250
CZUS 300	500	2000	3200	1000	1250

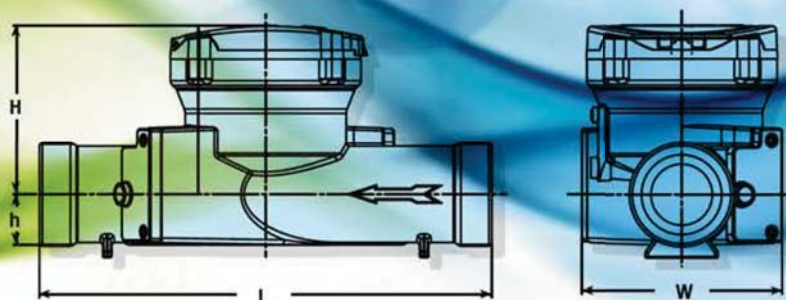
Precision curve



MEASUREMENTS

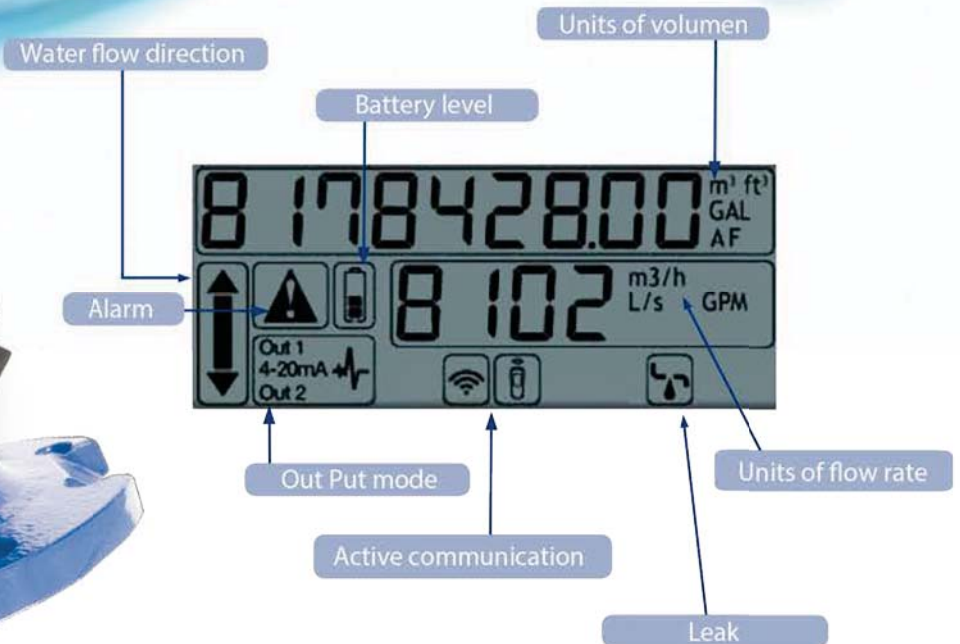


MODEL	L (mm)	B (mm)	H (mm)	h (mm)	Peso (Kg)
CZUS 40 (Threaded)	300	113	155	35	1,4
CZUS 50 (Threaded)	300	113	155	35	1,45
CZUS 50	200	165	194	40	9
CZUS 65	200	185	210	90	11,5
CZUS 80	225	200	210	90	13
CZUS 100	250	220	223	103	15
CZUS 150	300	285	282	140	32
CZUS 200	350	340	332	165	45
CZUS 250	450	406	383	203	68
CZUS 300	500	490	496	245	96





Information in LCD



Measurement principles

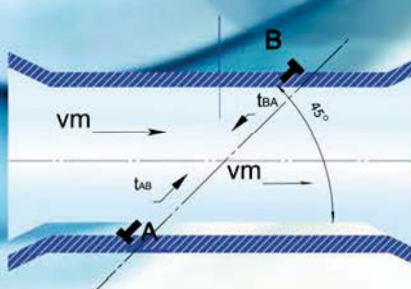
Imagine two identical swimmers that cross a river along the same diagonal line, one with the current and the other against the current. The swimmer who swims with the current needs much less time to reach the other side.

Ultrasonic waves behave in exactly the same manner. The sonic wave that flows with the current does so at a greater speed than the wave that goes against the current.

The transit times T_{AB} (time the ultrasonic waves take to go from sensor A to B) and T_{BA} (time from sensor B to sensor A) are measured continuously.

The difference in these times ($T_{AB}-T_{BA}$) is directly proportional to the measurement of the flow speed (V_m).

The flow rate is the result of the speed multiplied by the area of the section of the tubing.



Characteristics

- RATIO 500.
- Leaktightness IP68. (3m depth, 7 days).
- No need for straight sections (U0/D0).
- Minimum pressure loss
- Free passage of water.
- Start-up flow rate from 15 litres/hour.
- Short measurements according to ISO 4064-1:2005 for the substitution of units without need to modify the installation.
- Different systems of communication:
 - Output of digital pulses.
 - Output 4-20 mA.
 - UNE 82326:2010.