vision of the future

Y250

Water meter with electronic totalizer

ELSTER

Iberconta

Y250 solutions:

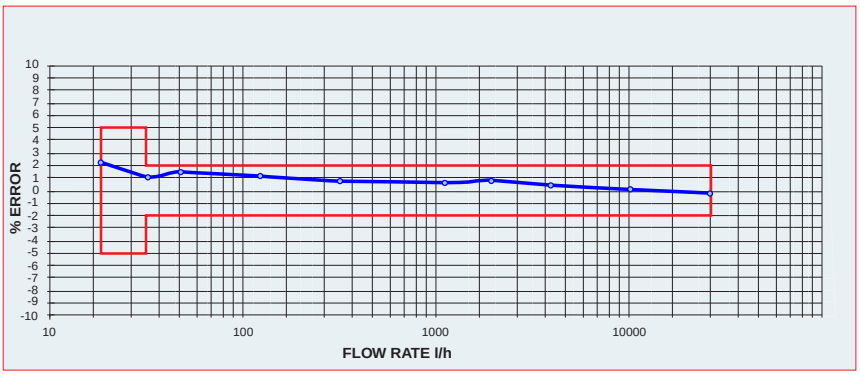
No undercounting
The metrology of the Y250 is C class when installed horizontally; the materials with which it is made mean that the start-up variation in time is unnoticeable; the linearization of the meter in 11 segments gives a high efficiency factor. All these features guarantee almost 'zero' undercounting.

Easy maintenance
The internal fail detection system, which activates the icon on the LCD, enables individual monitoring of meters, thus avoiding costly mass replacement campaigns; the meter is ready for easy maintenance (battery change and subsequent checking).

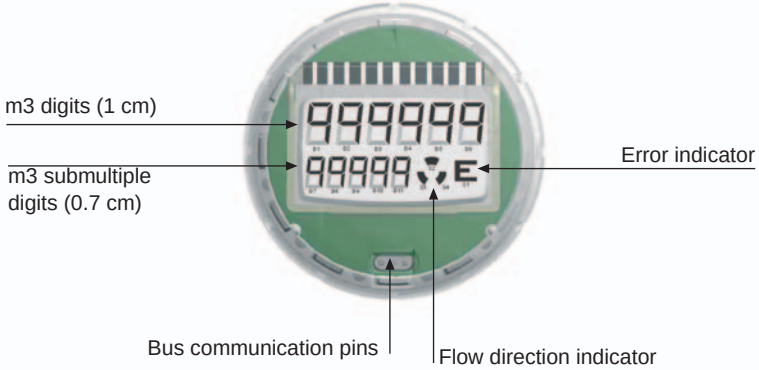
The design of the Y250 meter is hardwearing (industrial electronics -25º to +85º C) and it is protected from unauthorised handling by a seal and protection cover on the pulsation connections.

Tele-reading on installation or during a second stage of implantation
Y250 meters have a square wave pulsation output (transistor output) to distinguish the flow direction, i.e. it counts and discounts. They are compatible with MCI concentrators for sending readings by GSM, RTB, RADIO, etc. to the operations office.

Error curve



Display



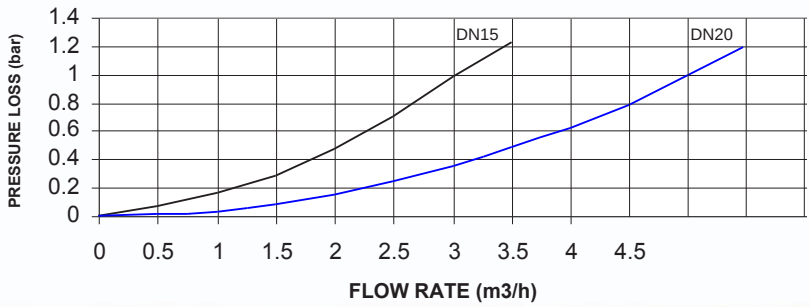
Flow rate indicator

- Metrological class C when installed horizontally.
- Start-up flow rate under 3 l/h
- Housing made of DIN 17660-compliant die-pressed copper alloy
- Back plate, turbine and pressure plate made of engineering plastic. High-performance turbine spinning system based on industrial sapphires.
- Electronic sphere with liquid crystal display for totalization, flow rate indication and internal error warnings, including a battery low indicator.
- Information gathered directly from turbine by induction. magnets are not used and consequently, it is not affected by external magnetic fields.
- The only moving part in contact with the water is the turbine, which means that wear and tear is minimal and the class is maintained for longer.
- Power supply from lithium battery with guaranteed autonomy of 8 years.
- Direct and inverse transistor pulsation output (counts and discounts).
- 350º adjustable sphere.
- Possibility of concentration on a reading point by means of the MCI system.
- Certified Electromagnetic Compatibility.

Metrological data, size and weight.

Calibre (mm)	13/15	20	LCD display	6-digit	
Nominal flow rate (m^3/h)	1,5	2,5	Digit height (mm)	10	
Maximum flow rate (m^3/h)	3	5	Battery life	8 years	
Transition flow rate (l/h)	22,5	37,5	Protection including bus connection	IP65	
Minimum flow rate (l/h)	15	25	length (mm)	115 y 190	
Approx. start-up (l/h)	< 3	< 4	Connections	7/8 - 3/4	1”
Flow rate with ΔP1 bar (m^3/h)	3,1	5,2		3/4 - 3/4	1”
Approximate weight (kg)	0,65	0,7			

Y250 pressure loss

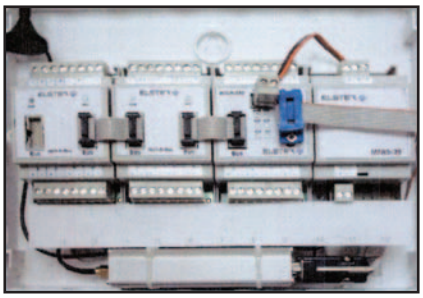


Operating Principle

The Y250 meter with electronic totalizer detects the movement of the turbine by induction. A modulation disc is placed at the top of the turbine with 3 inductive sensors. When the turbine spins, making the disc spin, the movement is detected by the change in status of the sensors, and depending on the order in which the change takes place the meter detects the direction in which it spins. If the direction is with the flow, it counts, and if it is against the flow, it discounts.

Tele-reading of meters

Y250 meters can send the count and discount pulsations to an MCI-type central unit. It has a module with 8 inputs (8 meters), which is upgradeable and has the possibility of power supply at 220V AC, to which connection can be made via RS232, an RTB modem, GSM, RADIO, etc., and with the appropriate software it is possible to read consumption from the operations office.



Size and weight.

Calibre (mm)	13	15	20
Length (mm)			
· without connections	115	115/190	115/190
· with connections	200	200	207
height (mm)	77	77	77
Height at centre	19	19	19
Exterior diameter (mm)	81	81	81
Input/output connections (inches)	7/8 - 3/4	3/4 - 3/4	1 - 1
Approximate weight (kg)	0,65	0,65	0,70

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