

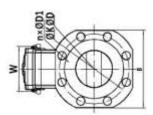


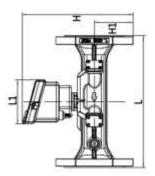
- Ultrasonic water meter
- Mod. ESF with sizes from DN 50 to DN 200, temperature class T50, measuring range R500 with pulse output (see attached table)
- Very low start-up flow rate and 70% lower minimum flow rate than conventional meters
- Temperature detection, fault indication and abnormal water consumption
- No moving mechanical parts, very low wear and tear and very high durability
- Liquid crystal display with IP68 protection rating and magnetic button
- Certified according to Directive 2014/32/EU
- Installation allowed in any position: in any case, the meter must always be filled with water in order to operate correctly



Models ESF Temperature Class T50

DN50 / 65 / 80 / 100 / 125 / 200 R500





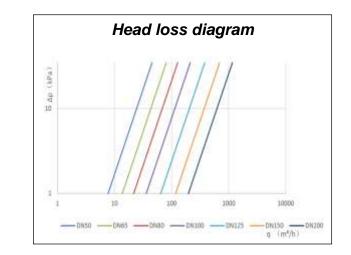
| Technical data – DN in mm | 50 | 65 | 80 | 100 | 125* | 150 | 200* |
|--|-------|--------|--------|--------|--------|--------|--------|
| Permanent flow rate Q3 (m ³ /h) | 25 | 40 | 63 | 100 | 160 | 250 | 400 |
| Overload flow rate Q4 (m ³ /h) | 31,25 | 50,00 | 78,75 | 125,00 | 200,00 | 312,50 | 500,00 |
| Transitional flow rate Q2 (m ³ /h) | 0,080 | 0, 128 | 0,202 | 0,320 | 0,512 | 0,800 | 1,280 |
| Minimum flow rate Q1 (m ³ /h) | 0,050 | 0,080 | 0, 126 | 0,200 | 0,320 | 0,500 | 0,800 |
| Pressure drop | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Measuring range R (Q3 / Q1) | 500 | 500 | 500 | 500 | 500 | 500 | 500 |
| Pulse value | K10 | K10 | K10 | K10 | K100 | K100 | K100 |
| Pulse duration (ms) | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| L) Length (mm) | 200 | 200 | 225 | 250 | 250 | 300 | 350 |
| L1 | 120 | 120 | 120 | 120 | 123 | 120 | 120 |
| H) Height (mm) | 245 | 250 | 275 | 290 | 380 | 400 | 470 |
| H1) Distance between pipe and counter support surface (mm) | 65 | 70 | 90 | 100 | 125 | 130 | 170 |
| W | 123 | 123 | 123 | 123 | 123 | 123 | 123 |
| B) Maximum overall diameter (mm) | 172 | 190 | 205 | 230 | 250 | 285 | 340 |
| D | 165 | 185 | 200 | 220 | 250 | 285 | 340 |
| К | 125 | 145 | 160 | 180 | 210 | 240 | 295 |
| n×ФD1 | 4×Φ18 | 4×Φ18 | 8×Ф18 | 8×Ф18 | 8×Ф18 | 8×Ф22 | 8×Φ22 |

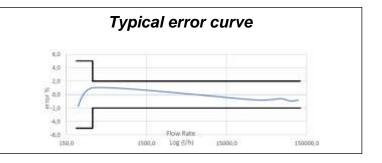
Hydraulic performances

| Maximum reading m ³ /h | DN 50-DN 100 | 9999999.99999 | | |
|---|---------------|--|--|--|
| | DN 125-DN 200 | 99999999.99999 | | |
| Maximum operating p | ressure | 1,6 MPa (1,0 MPa on demand) | | |
| Temperature class | | T50 (T30 on demand) | | |
| Sensitivity class to installation conditions | | H U3-D0, V U10-D5 | | |
| Protection class | | IP68 (IP65 by external power supply) | | |
| Power supply | | 3.6 V lithium battery (220 V ac, 24 V dc on request) | | |
| Battery life | | 13 years | | |
| Environmental and me conditions | echanical | Class C (class B, class I on request) | | |
| Electromagnetic class | | Class E1 (class E2) | | |
| Liquid | | Water | | |
| Installation position | | Any | | |

Connections

| Conductor | Signal | Description |
|-----------|---------------------|---|
| White | Pulses | Signal with both forward and reverse flow |
| Yellow | Direction | Closed contact = reverse flow |
| Green | Tampering | Contact open = tampering |
| Brown | Mass | Common |
| Grey | Forward pulse count | In case of reverse flow the counter records the volume internally. When normal flow is restored, no pulses will be generated until the previously totalled volume value is reset. |





The company's policy .is one of continuous product improvement and the right is reserved to modify the specifications contained herein without notice. Illustrations are not binding.02-25

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