Small turbine, big possibilities.
Turbine meters for low viscosity, non-aggressive liquids

The VISION series

The VISION turbine meters are ideal for the metering of small quantities of liquids. Instant and total flow can be displayed. The VISION 1000 series is most suited for small flow rates up to 2.5 l/min. The VISION series 2000 can be used in applications from 0.5 to 35 l/min and the VISION 3000 series offers a wider flow range of 5 to 65 l/min. These meters are best suited for flow measurement of demineralized water, alkaline solutions, oils/salad oil, fuel oil, beverages, water solutions or for fuel and fuel consumption. They are especially ideal for washing machines and dish washers, coffee machines, laser cooling systems, solar plants, bakery and steam cooking machines in large kitchen plants.

- Excellent price/performance ratio
- Compact construction
- Easy installation
- No maintenance
- High operating pressure
- Operates in any mounting position
- Quick response time

VISION 1000
with DIN connector

VISION 2000
with DIN connector

VISION 3000
with DIN connector

VISION 2000
with AMP Faston

VISION 2000
with cable connection

VISION 2000
with cable connection

ILR 701T
battery-powered RF-display
for remote reading via radio frequency

ILR 750T
meter mounted electronic display

ILR 701T
electronic display
with cable connection for remote reading
Applications

Food & Beverage
- Coffee machines
- Dispensing systems
- Vending machines
- Bakery machines
- Steamers

Automotive
- Fuel consumption measurement
- Fuel injection systems
- Common rail test equipments
- Compressors

Sanitary industry
- Instant electric water heaters
- Bathroom fittings
- Whirlpools
- Electric shower mixers

Industrial applications
- Cooling and heating systems
- Laser cooling
- Water Treatment/leakage monitoring
- Reverse osmosis systems
- Filter monitoring systems
- Solarplants
- Washing machines/dishwashers
- Oil burners

Medical applications
- Sterilizers
- Dental water jets
- Dialysis machines
- Disinfectors
- ENT treatment units
- Cleaning devices

Measurement of flow rate on hot water line to provide the liquid volume in the cup.

Dosing and mixing of hot and cold water.

Measurement of injector delivery flow, pump delivery flow or backflow.

Monitoring of coolants in laser and waterjet cutting.

Measuring and controlling low viscosity and non-aggressive liquids up to 15 cSt.

Flow control ultrafiltration has flow sensors on the inlet and outlet side of the dialyzer to allow control of dialysate flow.
Technical information: VISION turbine meters

<table>
<thead>
<tr>
<th>Type</th>
<th>VISION 1000</th>
<th>VISION 2000</th>
<th>VISION 3000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body material</td>
<td>Trogamid</td>
<td>Trogamid / Brass</td>
<td>Trogamid</td>
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<tr>
<td>Viscosity range</td>
<td>0.8 – 16 mm²/s</td>
<td>0.8 – 16 mm²/s</td>
<td>0.8 – 16 mm²/s</td>
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<tr>
<td>Accuracy</td>
<td>± 3 % of value</td>
<td>± 3 % of value</td>
<td>± 3 % of value</td>
</tr>
<tr>
<td>Repeatability</td>
<td>&lt; 0.5 % of reading</td>
<td>&lt; 0.5 % of reading</td>
<td>&lt; 0.5 % of reading</td>
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<tr>
<td>Temperature range</td>
<td>-20 °C to +100 °C</td>
<td>-20 °C to +100 °C</td>
<td>-20 °C to +100 °C</td>
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<tr>
<td>Operating pressure</td>
<td>25 bar max.</td>
<td>25 bar max.</td>
<td>25 bar max.</td>
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<tr>
<td>Electrical connection</td>
<td>Electrical connector EN 60529 or cable connection</td>
<td>Electrical connector EN 60529 / AMP Faston or cable connection</td>
<td>Electrical connector EN 60529 or cable connection</td>
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<tr>
<td>Power supply</td>
<td>5 – 24 VDC</td>
<td>5 – 24 VDC</td>
<td>5 – 24 VDC</td>
</tr>
<tr>
<td>Output signal</td>
<td>Open collector NPN pulse</td>
<td>Open collector NPN pulse</td>
<td>Open collector NPN pulse</td>
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<tr>
<td>Approvals</td>
<td>KTW, NSF 61, WRAS</td>
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<td>KTW, NSF61</td>
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</table>

**Specifications**

<table>
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<tr>
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<th>VISION 1000</th>
<th>VISION 2000</th>
<th>VISION 3000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring range l/min</td>
<td>0.1 – 2.5</td>
<td>1 – 10</td>
<td>0.5 – 5</td>
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<tr>
<td>K factor PPL*</td>
<td>22.000</td>
<td>3300</td>
<td>6900</td>
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<tr>
<td>Size DN (mm)</td>
<td>5</td>
<td>6</td>
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</tbody>
</table>

* PPL = pulses/litre