WATER METERS
Single-jet dry-rotor version meters

• For cold and warm water
• Nominal flow 1.5 - 2.5 m³/h
• Horizontal and vertical fitting
• Optionally, with Modularis totalizer or contact maker
HERE ARE MANY GOOD REASONS FOR USING THE UNIVERSAL SINGLE-JET METERS FROM WEHRLE

Thanks to their clever construction principle, single-jet dry-rotor version meters from Wehrle guarantee precise measuring results and exceptional reliability. The resolute separation of wet and dry areas protects the number wheel totalizer from deposits and corrosion. Without exception, the materials used are of top quality. Depending on the model, the meters are produced with 5 or 8 digit totalizers and are available for temperatures of up to 30 °C (ETK, single-jet dry-rotor version meter for cold water) or up to 90 °C (ETW, single-jet dry-rotor version meter for warm water). The maximum pressure load is 16 MPa.

The dial faces, stick-on labels and protective covers can be printed individually as the customer desires.

Because the totalizers are pivoted they can be read easily whether inserted horizontally or vertically.

Single-jet dry-rotor version meters meet all demands of the PTB (Federal Physicotechnical Institution) as well as EU regulations. Numerous international approvals have been granted.

Best equipped for modern meter communication are the single-jet dry-rotor version meters with Modularis totalizers and the meters with contact makers. Using these intelligent solutions, integration into any remote-reading system is not only simple but they can also be retrofitted at any time.

Naturally, our meters are also available as washstand meters and hose meters.
VARIATIONS

SINGLE-JET METER STANDARD

- Metrological class B (R80)
- Metrological class C (R160) possible with cold water
- Totalizer protected by separate dry and wet areas
- Pivotable 5- and/or 8-digit totalizers
- Long working life, thanks to the use of top-quality materials
- Individual print at customer’s request
- Housing in natural brass or chromium-plated

SINGLE-JET METER MODULARIS

The innovative solution for modern water meter communication:

- Ready for connection with remote reading systems
- 8-digit roller totalizer with modulation indicator
- Resolution 1 litre
- Can be retrofitted with the following electronic modules:
  - Modularis pulse generator, S0 DIN 43864
    or reed-compatible
  - Modularis M-Bus according to EN 1434-3
  - Modularis radio-controlled, frequency 868 MHz or 433 MHz

CONTACT METER WITH REED

The contact meter is suitable in the best possible manner for electronic data collection. The contact exit can be connected to different measuring data systems.

- Standard pulse valency 10 litres/pulse
- Standard cable length 2 m
- Other pulse valencies and cable lengths on request
- Direct switching voltage up to 200 V
- Switching current 500mA, switching time 0.5 ms
- Transition resistance 150 mOhm
- Capacity 0.2 pF
**TECHNICAL DATA**

**PRODUCT DESCRIPTION**

ETK -... = Single-jet dry-rotor version meter for cold water  
ETW-... = Single-jet dry-rotor version meter for warm water  
...-EAV = Single-jet meter Standard  
...-EAX = Single-jet meter Modularis  
...-EAK = Single-jet contact meter  
...-WAV = Wash-stand meter  
...-CAV = Hose meter

**Overall length L [mm]**  
<table>
<thead>
<tr>
<th>80</th>
<th>100</th>
<th>110</th>
<th>110</th>
<th>115</th>
<th>130</th>
<th>130</th>
<th>130</th>
<th>130</th>
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</thead>
</table>

| Nominal flow Q3 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 4 | 4 |
| Nominal flow Qn | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 2.5 | 2.5 |
| Nominal width [mm] | 15 | 15 | 15 | 20 | 13 | 15 | 15 | 20 |
| Start about [l/h] | < 8 | < 8 | < 8 | < 8 | < 8 | < 8 | < 8 | < 15 |
| Flow Q' at 1 bar pressure loss [l/h] | 3200 | 3200 | 3200 | 3200 | 3200 | 3200 | 5050 | 5050 |
| Connecting thread | 3/4" | 22x14h | 3/4" | 1" | 3/4" | 1" | 1" | 1" |
| Height H about [mm] | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 |
| Weight about [Kg] | 0.4 | 0.4 | 0.43 | 0.43 | 0.44 | 0.6 | 0.5 | 0.64 |

Achievable metrological class ETK  
B-H/A-V  
R80H/R50V  
C-H/A-V  
R160-H/R63-V

Achievable metrological class ETW  
B-H/A-V  
R80H/R50V  
C-H/A-V  
R160-H/R63-V

Order numbers  
ETK-WAV B/A 98-0574 98-0574  
ETW-WAV B/A 98-0575 98-0575  
ETK-CAV B/A 98-0064 98-0061

*Other overall lengths and metrological classes on request* 

Data sheet Single-jet dry-rotor version meter as at 2008-11-19/MDA.  
Product specifications are subject to change without notice  

Dimensioned drawing single-jet meters Standard and Modularis

**pressure loss graph**

**Typical error graph Classe C and Classe B**

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