

## Flowmeter

# DHTF-1

H<sub>2</sub>O



## OVERVIEW

### Operation

- Impeller

### Application

- Mechanical engineering
- Chemical industry
- Research & Development

### Features

- Universal orientation
- High accuracy
- Installation in systems with varying pipe diameters possible (mounting via T-piece)
- Pulse output
- PP-Version

### Installation information

- The flowmeter can be installed vertically or horizontally. The unit must not be installed upside down (Danger of sedimentation). The flow direction must be observed.
- The flowmeter must not be used as a supporting part in a pipe construction.
- The medium must not contain any solids.
- External magnetic fields influence the measurement. Keep sufficient distance to magnetic fields (e.g. electric motors).
- **Download: [www.meister-flow.com](http://www.meister-flow.com)**

## OPERATING DATA

|                                 |   |
|---------------------------------|---|
| <b>Operating pressure, max.</b> | 10 bar  |
| <b>Burst pressure (22 °C)</b>   | 15 bar  |
| <b>Operating temperature</b>    | 0 °C - 80 °C                                  |
| <b>Measuring accuracy</b>       | ± 2 % of measured value <sup>(1)</sup>        |
| <b>Repeatability</b>            | ± 1 % of measured value <sup>(1)</sup>        |
| <b>Viscosity range</b>          | 0,5 - 20 cSt                                  |
| <b>Sensing principle</b>        | Hall effect, contact-free measuring technique |

<sup>(1)</sup> Over calibrated range

## MEASURING RANGES

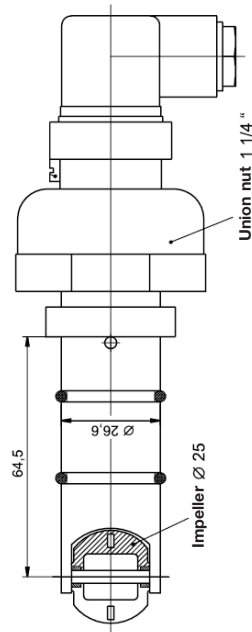
| <b>Type</b> | <b>Measuring range for H<sub>2</sub>O at 22 °C</b><br><b>m/s</b> |
|-------------|--|
| DHTF-1      | 0,15 – 10  |

## MATERIALS

### PP version

|                     |   |
|---------------------|---|
| Sensor housing:     | PP  |
| Impeller:           | ECTFE                                     |
| Bearing:            |   |
| Axle                | Ceramic (AL <sub>2</sub> O <sub>3</sub> ) |
| Bearing             | Ceramic (AL <sub>2</sub> O <sub>3</sub> ) |
| Magnets:            | ECTFE-encapsulated                        |
| O-Rings:            | FKM (optional EPDM)                       |
| Weight:             | approx. 126 g                             |
| Process connection: | Installation in pipe line<br>via T-piece  |

## TECHNICAL DRAWING



## ELECTRICAL DATA

|                                       |  |
|---------------------------------------|--|
| <b>Power supply</b>                   | 5 - 24 VDC                               |
| <b>Signal form</b>                    | square-wave signal<br>NPN open collector |
| <b>Output frequency</b>               | 42 Hz / m/s                              |
| <b>Output current, max. (at 24 V)</b> | 11 mA <sup>(2)</sup>                     |

<sup>(2)</sup> at temperatures < 60 °C: 15 mA

## ELECTRICAL CONNECTION

- Connector in compliance with EN 175301-803, Form A (DIN 43650, Form A)

### Ingress Protection

IP65

### Pin allocation

PIN 1: 5 - 24 VDC  
PIN 2: Signal  
PIN 3: Not connected  
PIN ⊕: Ground



# MASTERPIECES MADE IN GERMANY

DHTF-1 4 0001 12-15 EM

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