



**AW-LAKE**  
PROCESS FLOW MEASUREMENT



## TURBINE FLOW METERS & ELECTRONICS

[www.aw-lake.com](http://www.aw-lake.com) | [sales@aw-lake.com](mailto:sales@aw-lake.com) | 414.574.4300

## ABOUT AW-LAKE TURBINE FLOW METERS:

At AW-Lake, our turbine flow meters are crafted on state-of-the-art machining centers and wet tested on our flow calibrator to ensure high accuracy and repeatability. Backed by more than 50 years of experience in turbine flow meters, AW-Lake continually serves global customers in oil & gas, chemical/petrochemical processing, semiconductor, fluid power, and process control.



## AXIAL TURBINE FLOW METERS

### TRG — STANDARD TURBINE FLOW METER



The TRG series is the workhorse of turbine flow meters. Its rugged stainless steel body construction and vast range of sizes makes this turbine ideal for many applications and is suitable for water, solvents, and other lower viscosity fluids, such as antifreeze.

**Flow Ranges:** 0.08 - 200 GPM  
**Working Pressure:** up to 5,000 PSI  
**Accuracy:**  $\pm 1\%$  of reading  
**Repeatability:**  $\pm 0.1\%$   
**Connections:** NPT  
**Body Material:** 316L stainless steel

### HM — HIGH PRESSURE TURBINE FLOW METER



Perfect for chemical injection systems, the HM flow meter withstands pressures up to 20,000 psi and is available in seven different flow ranges, from .08 GPM to 32 GPM.

**Flow Ranges:** 0.08 - 32 GPM  
**Working Pressure:** up to 20,000 PSI  
**Accuracy:**  $\pm 1\%$  of reading  
**Repeatability:**  $\pm 0.05\%$   
**Connections:** Medium pressure AutoClave®  
**Body Material:** 1.3980 Stainless Steel

### HM...F — FLANGED TURBINE FLOW METER



The HM series turbine flow meters are available in flanged versions for those applications where ease of installation and removal are a priority. The HM...F meter is available in ANSI and DIN flange connections, depending on your preference or pressure requirements.

**Flow Ranges:** 0.08 - 12,000 GPM  
**Working Pressure:** Dependent on flange  
**Accuracy:**  $\pm 1\%$  of reading  
**Repeatability:**  $\pm 0.05\%$   
**Connections:** ANSI & DIN flanges  
**Body Material:** 316L stainless steel

### TW — TURBINE FLOW METER



The TW turbine is ideal to withstand the demands of the most rigorous flow measurement applications such as liquid flow measurement on or off the oilfield.

**Flow Ranges:** 0.06 - 5,000 GPM  
**Working Pressure:** up to 5,000 PSI  
**Accuracy:**  $\pm 1\%$  of reading  
**Repeatability:**  $\pm 0.1\%$   
**Connections:** NPT and Victaulic®  
**Body Material:** 316 Stainless steel

## SUBSEA TURBINE FLOW METER



The sturdy construction of the subsea turbine flow meter means high performance and longer service life. With completely sealed off electronics and subsea connector there is no need for electronics module canister space.

**Flow Ranges:** 0.08 to 15.8 GPM  
**Working Pressure (External):** Up to 7,200 PSI  
**Working Pressure (Internal):** Up to 20,000 PSI  
**Temperature:** -40 to 250°F  
**Frequency Range:** 2 up to 2,000 Hz  
**Connections:** AutoClave®

## TRP — HIGH TEMPERATURE TURBINE FLOW METER



This meter delivers the accuracy required even in the toughest applications with contaminated or extremely hot oil heat transfer media, such as are found in the metal die casting industry.

**Flow Ranges:** 0.75 - 75 GPM  
**Working Pressure:** 290 PSI  
**Accuracy:** ±2.5% of actual flow  
**Repeatability:** ±0.5%  
**Connections:** NPT

## TR-QS — WAFER-STYLE TURBINE FLOW METER



The modified upstream and downstream flow straighteners of the TR-QS wafer-style turbine flow meter allow for a higher accuracy and greater fluid dynamics.

**Flow Ranges:** 0.5 - 5,000 GPM  
**Working Pressure:** Refer to ASME/ANSI B16.5-1996  
**Accuracy:** ±1% of reading (Liquid)  
**Repeatability:** ±0.1%  
**Connections:** Wafer-style ASME/ANSI B16.5-1996

## PADDLE WHEEL FLOW METERS

### LAKE FLOWSTAT PADDLE WHEEL FLOW METER



Ideal for monitoring various fluids in applications such as chillers/cooling circuits, HVAC, medical equipment, batching and industrial process control applications.

**Flow Ranges:** 0.5-50 GPM (2-200 LPM)  
**Working Pressure:** up to 500 PSI (34 Bar)  
**Accuracy:** ±2.0% of full scale  
**Repeatability:** ±0.5% of full scale  
**Temperature Rating:** 20-225°F (-7 to 107°C)

### LAKE FLOWSTAT ES PADDLE WHEEL FLOW METER



Ideal for economically monitoring various fluids in applications such as chillers/cooling circuits, HVAC, batching and industrial process control applications.

**Flow Ranges:** 0.5-15 GPM (2-60 LPM)  
**Working Pressure:** up to 150 PSI  
**Accuracy:** ±2.0% of full scale  
**Repeatability:** ±0.5% of full scale  
**Temperature Rating:** 20-150°F

## COMPATIBLE ELECTRONICS

We offer a complete line of compatible electronics, including sensors with many output options, as well as local meter-mounted and remote displays, explosion-proof displays, closed loop controllers and batch controllers.

### Sensor Types:

- Analog
- Hall-Effect
- Battery powered display
- EX-rated enclosure
- Carrier Frequency
- Inductive
- Fiber Optic

### Options Include:

- Bluetooth
- Linearization
- Quadrature
- Current or Voltage
- Modbus or HART
- CSA, ATEX or IECEx
- High Temperatures up to 600°F
- Frequency-to-Analog Conversion
- Pulse Amplification



**AW-Lake Company**

2440 W. Corporate Preserve Dr. #600  
Oak Creek, WI 53154  
414.574.4300  
www.aw-lake.com

**KEM Küppers Elektromechanik**

GmbH Liebigstraße 5  
85757 Karlsfeld, Germany  
+49 (0)8131 59391-0  
www.kem-kueppers.com

**TASI Flow China**

Rm. 2429 Jin Yuan  
Office Building, No. 36  
CN - BeiYuan Road, Beijing 100012  
+86 10 520 037 38

**TASI Flow Singapore**

1003 Bukit Merah Central #06-32  
#02-19 Eunos Techpark  
Singapore 159836  
+65 62741130

