



## TURBINE FLOW METERS & ELECTRONICS

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## 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:** 316 Ti stainless steel/ 316LFlow

### HM...U — ALUMINUM 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

## 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.

**Ranges:** 0.06 - 5,000 GPM  
**Working Pressure:** up to 5,000 PSI  
**Accuracy:** ±1% of reading  
**Repeatability:** ±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



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

## 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

## 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





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