

Subsea Flow Measurement

Whether for subsea drilling operations, blowout prevention, ROV maintenance, valve actuation or subsea chemical injection AW-Lake's subsea flow meters are up to the task. Your offshore mission-critical processes require the most reliable, highest accuracy instruments – those that were designed for the harsh subsea environment. AW-Lake's 20+ years of proven performance in offshore flow measurement gives us the confidence to tackle your toughest subsea applications.

Intelligent Technology for Deepwater Work

Technological advancements have significantly improved the feasibility and efficiency of oil and gas extraction beneath the seabed, and AW-Lake has contributed flow measurement products to support that trend for decades. To protect these large-scale projects from unnecessary re-work or repairs, AW-Lake partners with companies to develop flow meter solutions that are reliable, fast and easy to integrate, and forward-thinking to ensure long service life in one of the harshest environments on the planet.

Our Experience

- Subsea Control Modules
- Intervention Workover Control Systems
- Subsea Chemical Injection Units
- Subsea Hydraulic Power Units
- Wellhead Protection Systems
- Remote Operated Vehicles (ROVs)
- Blowout Preventor (BOPs)

Our Promise

- System Reliability
- Increased Efficiency
- Long-term Durability
- Customized Design
- Flow Data Accuracy
- Seamless System Integration

Who We Are?

AW-Lake, a TASI Measurement company, is a leading North American design, manufacturing, and service company of flow measurement technology for the fluid control needs of various industries, including oil & gas, marine, chemical processing, paints & coatings, hydraulics & pneumatics, heavy industrial, and fluid power. Together with its European sister companies, KEM-Küppers and LitreMeter, AW-Lake services and distributes a broad portfolio of flow measurement instrumentation throughout North America, South America, Europe, and Asia.

Our Decades of Experience

AW-Lake has worked shoulder-to-shoulder with many Original Equipment Manufacturers, oil producers, engineering firms and subsea contractors for over 20 years, designing and supplying subsea flow instrumentation around the world.

Customized Subsea Flow Meters

Our Subsea Flow Meters are available in a wide variety of flow ranges and electrical outputs, as well as a variety of exotic materials for highest corrosion resistance and material compatibility. Depending on your needs, we offer both spur gear and rotary piston Gear Meter designs, as well as Turbine Flow meters.

Features

- Internal pressures up to 20,000 psi (1,380 bar)
- External pressures up to 10,000 psi (700 bar)
- Operating depth to 23,000 ft (7 km) – higher on request
- Wide turndown and flow ranges from 0.001 to 7 GPM
- Fluid temperature compatibility from -40°F to 248°F (higher temps on request)
- High grade body and wetted parts material 316L or duplex steels

Electronics are integrated to your specifications to withstand external pressures and temperatures.

Communications: Analog (4-20mA), Pulse, HART, CAN bus



Available Test Procedures

- Vibration Test
- Dye Penetration Test
- Hyperbaric Pressure Test
- Hydrostatic Pressure Test
- Material Test Certificate
- Positive Material Identification