

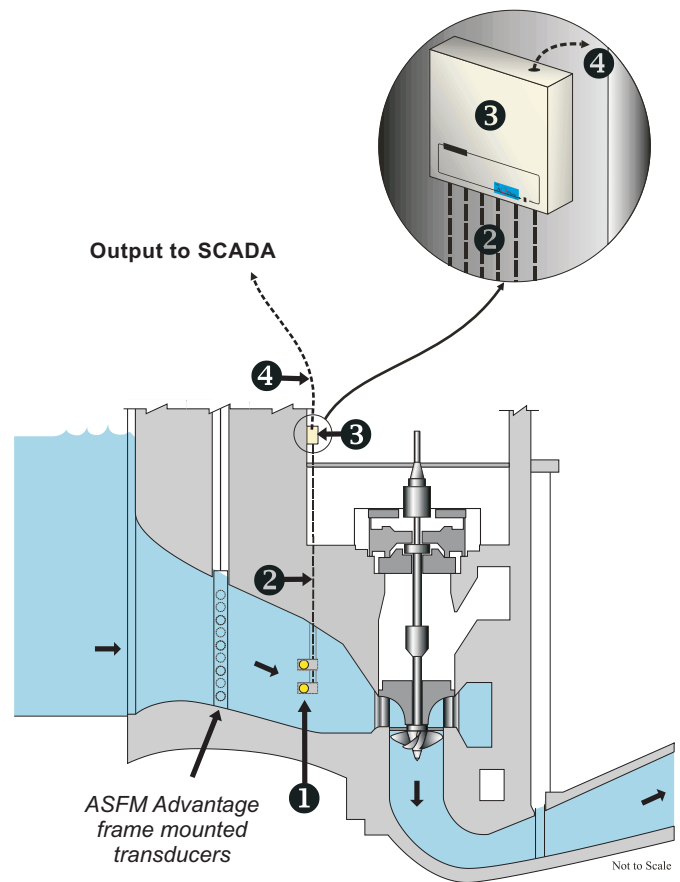
ASF^M Monitor

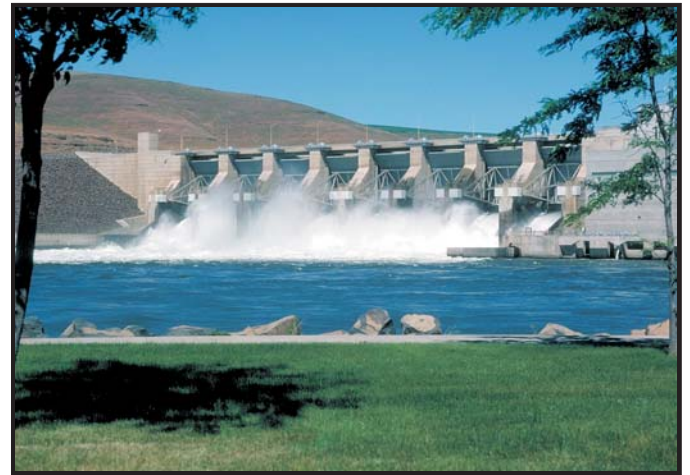
The *ASF^M Monitor* provides reliable, robust, repeatable, real-time total discharge measurements at low-head, short intake plants. It can also be used for the detection of trashrack blockage and penstock rupture.

Product Description

The **ASF^M Monitor** consists of four major components (see diagram at right)

- ① Ultrasonic transducer assemblies: permanently mounted in the intake to the turbine.
- ② Cable Assemblies
- ③ Surface Unit: Cables from each underwater transducer assembly are connected to this box.
- ④ Digital Output: Computes total flow discharge at frequent intervals using the velocities obtained from each measurement level. The output from the Surface Unit is selectable as serial, Ethernet, or 20 mA current loop for input to SCADA systems.





Features

- Cost effective support of plant and system-level optimization models.
- Non-intrusive, no headloss and no vulnerability to debris impact.
- Long term operational monitoring of turbines.
- Real-time output of total discharge provided on site or to remote locations
- Detection of operational problems, such as deterioration of turbine performance.
- Payback periods of months rather than years due to its comparatively low cost, particularly for multiple units.
- Virtually maintenance free - attractive alternative to Winter-Kennedy taps.

ASL A^QFlow offers a complete installation and commissioning service package, including installation of the underwater and surface components, carrying out the calibration using the ASFM Advantage temporarily installed in the gate or stoplog slots, entering and validating the calibration coefficients. The ASFM Monitor will be backed up by a complete one year warranty on parts and labor.



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Innovative Solutions for Hydro's most Challenging Flow Measurements