Panametrics
a Baker Hughes business

Application note

Waste water treatment plant

AquaTrans AT600 clamp-on flow meter measures waste water intake on a large pipe with tight available space

Problem

A company in Turkey has many waste water treatment facilities in the Istanbul district.

It mainly has open-channel flow meters at the inlet and outlet of its water treatment facilities. In one of them, flow measurements were quite unbalanced between inlet and outlet—up to 30%—which cannot be correct when the plant runs under normal conditions. After the open channel inlet, the pipe goes underground with very limited possibilities to make a flow measurement, even if the pipe is fully filled. The only opportunity is in the valve room. Most of the flow meter vendors didn't have a solution for making a measurement. In addition to this issue, the waste water has solid content up to 2% in volume.

Application

Pipe material:	Carbon steel, diameter: 2200 mm (88 in), thickness: 12 mm (~½ in)
Medium:	Waste water, temperature: 10 to 20°C (50 to 68°F)
Velocity:	0 to 2.3 m/s (0 to 7.55 ft/s)

Solution

Enotek proposed that the customer test Panametrics AT600 clamp-on flow meter for handling this application despite the short downstream piping run. The flow meter was installed in a single traverse as there was not enough available length to go for a dual traverse set up. The customer tested the meter for one full month to have enough time to evaluate its performance. The results matched their expectations.

As a public company, the customer had to issue a tender. Two other companies, tried to measure the flow at the same location. Neither of them were able to get stable readings and some exhibited severe fluctuations. As a result, the customer selected the Panametrics AT600 clamp-on flow meter for this harsh application.

Panametrics, a Baker Hughes business, provides solutions in the toughest applications and environments for moisture, oxygen, liquid and gas flow measurement.

Experts in flare management, Panametrics technology also reduces flare emissions and optimizes performance.

With a reach that extends across the globe, Panametrics' critical measurement solutions and flare emissions management are enabling customers to drive efficiency and achieve carbon reduction targets across critical industries including: Oil & Gas; Energy; Healthcare; Water and Wastewater; Chemical Processing; Food & Beverage and many others.

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