

Application note



Airport turns to Panametrics for reliable measurement of sewage

AquaTrans AT600 clamp-on Panametrics ultrasonic flowmeter

Problem

An international airport in the Middle East monitors sewage water sent to a treatment station with an electromagnetic flow meter. However, they have complained about inconsistent readings. When the electromagnetic manufacturer service representative visited the airport, they found the liner damaged, which meant the meters had to be replaced with an alternative lining material meter. To replace the meter, the airport would have to shut down the line, drain the fluid, rent a crane, swap out meters, and then place the new electromagnetic flow meter into service. The overall replacement cost goes well beyond the cost of the meter, but also includes all costs associated with the loss of the line for at least one full day.

Application

Medium:	Sewage water with up to 5% of solid content in volume
Pipe:	720mm (~28") wall thickness: 10mm
Temperature:	Ambient
Accuracy requirement:	±1% to 2% of reading

Benefits:

- Benefits:
- Reliable, accurate flow measurement
- No process interruption
- Installs on the outside of the pipe
- Extremely cost-effective solution



Solution

This specific airport already had an AquaTrans AT600 clamp-on Panametrics ultrasonic flowmeter installed in their chiller plant working to their satisfaction. The airport was apprehensive about a clamp-on for this sewage water application as the water contained 5% solids by volume. However, they installed a new AquaTrans meter as a trial for this application since it could be installed immediately without interrupting the line. After the trial, the customer was more than satisfied with the stability and accuracy of the meter and will be installing more AquaTrans meters at this site in the future.

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