



Rural Water Plant Finds Leak with SITRANS FUP1010 Clamp-On Flowmeter

A rural water treatment plant in the Southwestern United States treats, stores, and distributes 325,000 gallons per day of water to the village it serves. The village consumes an average of 125,000 gallons a day and can store up to 1 million gallons.

The Problem

Unfortunately, the treatment plant was also losing 210,000 gallons a day due to an unknown leak. Because of the leak, water storage was critically low at 100,000 gallons and the water service had to be temporarily shut off to half the village.

The village management hired a consultant company, at \$1000.00 a day, to find the leak. The consultant worked for about a week without any luck.

The Solution

Rural Water Authority brought in their portable SITRANS FUP1010

clamp-on flow meter to see if they could find the leak. They checked the flow from the well and compared the readings to the line feeding the storage tank. The 8-inch pipe was located in the side of a mountain and was buried. The differences in the clamp-on meter readings indicated the leak was on this line. The supervisor then had the plant personnel uncover the line in various sections and narrowed the search down to the pipe section in which the leak was believed to be occurring. The leak was found, the 30 year old pipe was repaired, and water to the village was restored.

The Rural Water Authority supervisor had been using the clamp-on meter for over eight years when he was supervisor of a larger treatment plant in the State. He had compared the Siemens meter to other competitive clamp-on meters and had developed a great faith in the meter's reliability.

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He was confident in the readings he was getting on both the water source and the pipe leading into the storage tank.

The Result

By using the Siemens clamp-on flowmeter to find the leak, the village saved money by not wasting more time and water, and not spending additional dollars on a consultant. By quickly finding the leak, thousands of gallons a day in lost water was avoided and the village was able to lift the water rationing.

The Product

Clamp-on ultrasonic flowmeters use external transducers that can quickly and easily be installed on the outside of the pipe. They can also be easily moved from one job site to another. There is no need to cut the pipe or interrupt the flow.

A waterproof portable meter with an IP67 enclosure, which was the meter being used by the water plant, is ideal for outdoor use. It can be left in place without worrying about rain damage. The rugged, impact resistant plastic case enables it to withstand rough treatment that normally would damage most other

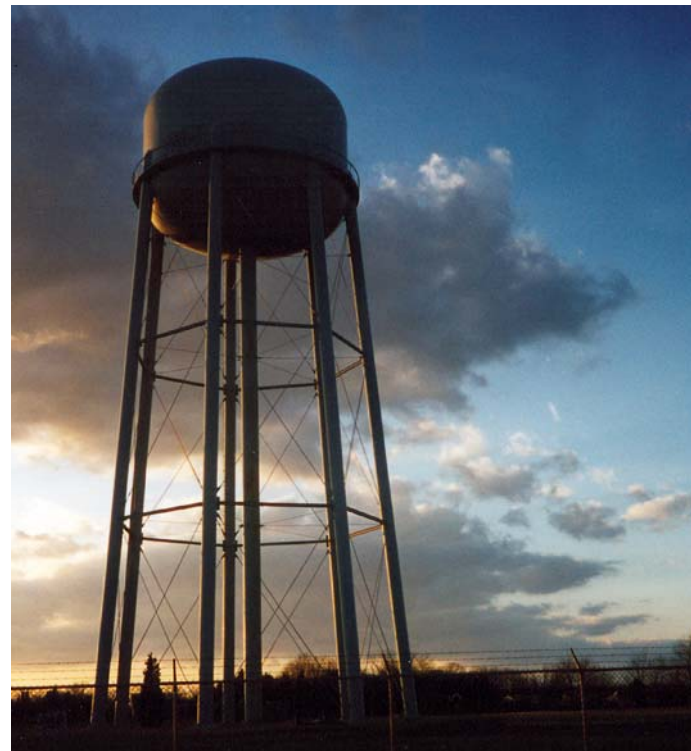
meters. Portable meters operate on AC or DC power, and have an internal battery that provides 4 hours of operation. The internal battery can be recharged in 1.5 hours.

Portable meters operate in either WideBeam transit time mode or Doppler mode making them suitable for virtually any liquid, even those with high aeration or suspended solids.

The FUP1010 portable clamp-on flowmeter is an ideal check meter for verification of your mechanical meters, and / or measurement in locations that are not currently being metered. Using the meter's internal data logger, process history can be recorded and stored or downloaded to a PC or laptop.

Clamp-on ultrasonic portable meter features:

- Easy installation; no need to cut pipe or stop flow
- Minimal maintenance
- No moving parts to wear or foul
- No pressure drop or energy loss
- Wide turn-down ratio
- Choice of single or dual channel models minimizes total cost
- Zeromatic Path automatically sets zero without stopping flow and reduces zero drift, even at low flow



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