

PRODUCT APPLICATION NOTE

SN0601

Industry: Electric, Gas and Sanitary Services

Application: Tank monitoring

Optech Equipment: Sentinel 3100

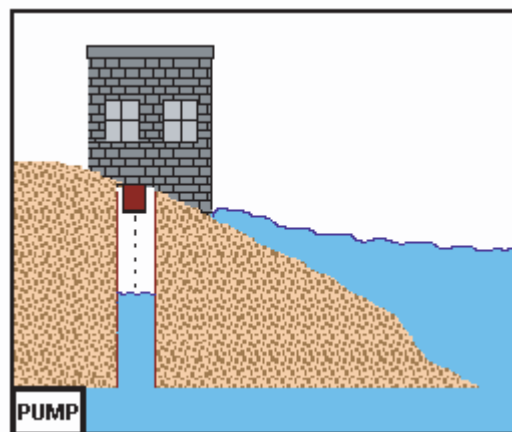
Application Description: The customer required a method of monitoring the level of raw lake water in their surge compensation tanks.

Level measurement is an integral part of process control, and requires continuous and accurate measurements under all conditions. Optech tested its Sentinel 3100, a NEMA 4 laser level monitor, at a large public utilities department. It is important to know the water level in the surge compensation tanks; the water has to be above a certain level before the pumps can cycle on or else the pumps can be damaged by pumping air. Other technologies were unsuccessful because of the narrowness of the tanks, and since nothing could be placed inside the tanks, the sensor had to be non-contact. The Sentinel 3100 measured successfully to the water surface inside the tank. When compared to a tape measure, the results agreed favorably.

Other liquids or beverages that contain foam or vapour, or are agitated, present no problem for the Sentinel 3100.

KEY ADVANTAGES OF LASER TECHNOLOGY IN LEVEL MEASUREMENT

- Measurements unaffected by temperature variations
- Measurements can be made even through very narrow bins
- Measurements unaffected by off-gas layers
- Measurements unaffected by background noise
- Non-contact measurements
- Short setup time with no calibration required



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