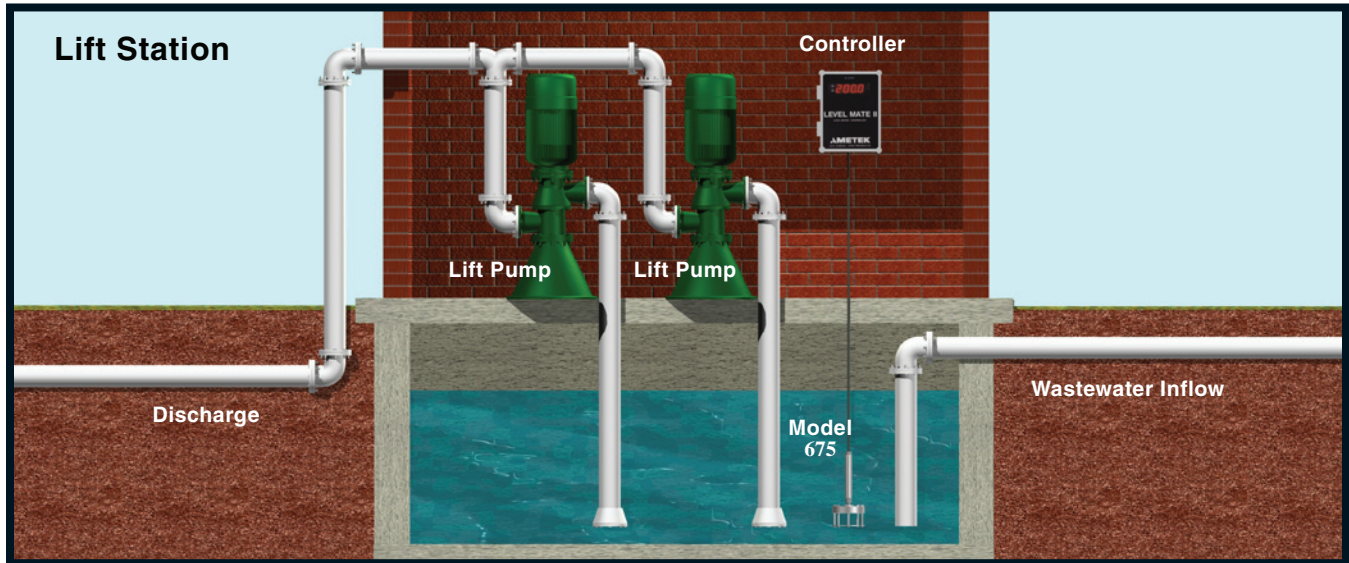


Water & Wastewater Application Bulletin

Wet Well Wastewater Level Measurement



The Problem

Wastewater treatment facilities need to process raw sewage from residential and industrial customers without causing spills back into the environment. Any spill presents environmental issues, health hazards, and is extremely costly to clean up.

The raw sewage, influent or wastewater initially comes into a lift station. The lift station is a wet well that holds the raw sewage until it moves to the next step of the process, which is the bar screen to primary treatment. The level of wastewater in the wet well is maintained by lift pumps. When the level of the wet well raises to a pre-set value the pumps turn on and move the wastewater to the next step of the treatment process. The level in the wet well is measured by some type of level measurement instrument that communicates with a controller for the pumps. Many of these level instruments are prone to failure because of the harsh environment.

The Solution

AMETEK PMT Products new Model 675 is a submersible level transmitter that is designed for wastewater applications. The Model 675 has a heavy duty SST protective cage built around a durable 3.5" flush diaphragm to prevent the unwanted buildup of debris, fats, oils, greases or other bio-solids by eliminating the potential gaps on the measurement area. The heavy duty construction and weight of the unit eliminate the effects of turbulence in the wet well on the transmitter, whether it is located at the bottom of the well, or a stand-off. The Model 675's all 316 stainless steel construction offers outstanding environmental protection. A replaceable lower diaphragm seal provides for a longer transmitter life expectancy and serviceability.

The Model 675 is CSA approved for Intrinsically Safe operations, Class I, Division 1. It has a 4-20 mA output that can be linked into a controller for the pumps, or into our LevelMate II system.