



Upgrading Wastewater Pump Stations

The Problem

A municipality has over 140 wastewater pump stations. Many of them were installed 20 to 30 years ago. The municipality wanted to upgrade to a more reliable and functional level control system. With the wide variety of pump controls used, some with float switches and some with bubbler activated switches; they needed something that would be compatible with everything.

The Solution

After browsing many products on the market, the customer decided to go with a submersible pressure transducer to replace the floats and bubbler systems and a Precision Digital PD6000 with 4 relays and a 4-20 mA output. The 4 relays are used to control the pumps and provide high and low level alarm. This solution worked so well that they decided to upgrade all 140 wastewater pump stations with a PD6000-6R7.

Why the PD6000 Worked

- » Internal 24 VDC power supply to power the 2-wire submersible level transducer that replaced the float switches and bubbler switches.
- » Ability to scale the 4-20 mA input signal to match the pump station level exactly.
- » Four adjustable form C relay contacts provided the ability to program each contact to suit specific conditions for either pump control or alarm.
- » Scalable 4-20 mA output signal provided the ability to connect the signal to a cellular based data logger/monitor.
- » The PD6000's pump alternation feature proved useful in stations lacking alternation.
- » Ability to program settings through a laptop was a bonus. It provided the ability to save and record those settings for future reference.

"The Precision Digital PD6000 exceeded our expectations! We clearly used many of the features available."

- Municipality Operator



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