



Vision130™ Controls High Pressure Water Pumps

As a pumping system manufacturer for a wide range of apartments, schools, hospitals, and commercial buildings in the mid-Atlantic region, Alyan Pump Company of Folcroft, PA was in need of a control solution for their “Variable Speed Pressure Master”. Designed to provide high pressure water to upper floors in high-rise buildings, the “Variable Speed Pressure Master” needed a PLC that would allow them to display pressure, and give them the ability to set parameters. They needed to track their run time, and display the pump run and alarm conditions. The PLC would need to calculate and compare circuits, and also have a NEMA 4X rating so it could be mounted on a panel. This was Alyan Pump’s first integration of transducer feedback into their variables speed unit, so they wanted to provide plain English alarm messages and take advantage of the display being on the panel door.

Unitronics V130-33-R34 was the perfect fit for the customer’s needs. “It really enhanced our product’s look and flexibility.” Said Ralph Hannmann, President of Alyan Pump Company. The PLC was used to provide signal to the VFDs, and to do lead-lag control of the pumps. By monitoring the discharge pressure via analog inputs for the transducers, they were able to increase or decrease the drive speed to maintain a constant pressure. The PLC was also able to provide them with high and low pressure alarms, alteration functions, and the ability to set the lead pump. The display on the V130 provided status on the alarms and pumps, and was able to keep track of the run time of each pump. The display was also able to provide information in English that normally would require indicator lights. Using different screens, they facilitate adjustments and run time information. They were also able to use the PLC’s keypad to replace the previously used selector switches.

