



Tech notes



Pre-engineered Package Lift Stations for Wastewater and Stormwater

October 2004

Product Information & Updates • Installation & Technical Tips

THIS EDITION OF TECH NOTES looks at how Romtec Utilities' pre-engineered lift stations can integrate into any controller environment, via a variety of flexible management options. Romtec Utilities works closely with consulting engineers and system owners to provide control panels that work for any particular situation, and can design a custom system that meet standards set by any municipality. Romtec Utilities' pre-engineered package lift stations feature components by MultiTrove, an ITT Flygt strategic partner and the leading company in pump station management technology today. Next month, Tech Notes will focus on MultiTrove PumpView, a cutting-edge, Web-based SCADA system that enables control and monitoring via the Internet.



The complete lift station offered by Romtec Utilities can be operated in a variety of controller environments.

Lift stations are operated in a variety of controller environments, and Romtec Utilities offers solutions that fit every situation. Our package lift stations come standard with a best-in-class level sensing and monitoring system by MultiTrove, Inc., but they are also engineered to work in any pre-existing electrical/SCADA-defined environment.

The professionals at Romtec Utilities can expeditiously and cost-effectively spec a system that incorporates our best-in-class lift station within your existing system. Let's look at three ways we've done that recently:

The MultiTrove way
Romtec Utilities provides panels with three different

levels of lift station control, from simple telemetry functions to full SCADA capabilities. The MultiTrove waste management system eliminates the need for a system integrator and provides a common, scalable standard within any

lift station network. In the most basic configuration, the panel incorporates the MultiTrove MP2PC (for duplex systems) or MT3PC (three pumps) Pump Controller, which monitors and controls the pumps and all



At the full SCADA level, Romtec Utilities offers MultiTrove's powerful Outpost Management system, enabling remote control of the lift station and local or remote access to more than 300 data outputs.

ROMTEC UTILITIES

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Romtec Utilities is a dedicated integrator of submersible pumps and lift station equipment manufactured by ITT Flygt.



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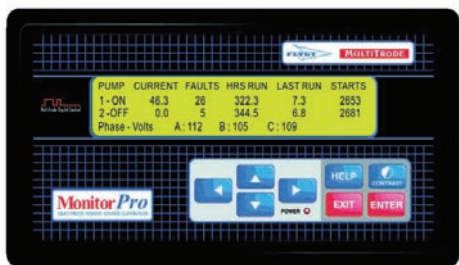
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The most basic control configuration features the MultiTrove MP2PC or MP3PC pump controller, which monitors and controls the pumps and all alarm functions in the lift station. Station data is remotely accessible and controllable when the MultiTrove MonitorPro Pump Station Supervisor (top) is incorporated. Adding a Protocol Translator (right) enables MultiTrove controllers to communicate with all other SCADA systems.

all alarm functions within the lift station. The next level of control incorporates the MT2PC or the MT3PC with the MultiTrove MonitorPro Pump Station Supervisor, which makes use of internal memory to record and store the essential parameters of lift station operation. In the most full-featured level, the panel incorporates the pump controller and the MonitorPro with a SCADA (supervisory control and data acquisition) communication link, by radio, phone or computer modem, enabling remote

control of the lift station. MultiTrove's Outpost Management Systems, a powerful municipal SCADA system, interfaces directly with the MonitorPro, and so requires no development or integration chores.

MultiTrove with modifications

Many municipalities already have their own software standards in place. By adding a protocol translator at the control panel, Romtec Utilities can create a common platform with which the lift station can operate. The control panel

can be set to send all the information required from the lift station to the computer, limiting the work of a system integrator to the computer end, and eliminating any time configuring the control panel.

Romtec Utilities uses the MTT Protocol Translator, which allows MultiTrove controllers to be integrated into existing lift station networks, and enables them to communicate with any software system that accepts MODBus or DNP3, such as Intellution, Wonderware and Citect.

The Translator has two additional scalable analog inputs and six digital inputs, each with 32-bit accumulators, a built-in radio modem and a 38,400 bps communication port.

Completely customized

For locations with electrical and computer interfaces already in place, Romtec Utilities can design an all-custom system that efficiently interfaces with pre-existing scenarios. Our skilled professionals make the expensive and time-consuming process of hiring an electrical engineer redundant.

We can quickly assess an existing system, and design a system that integrates the electrical, structural and mechanical aspects of lift station management to your standards. We can make recommendations on how to improve or change your system, and we do that expeditiously. All that's required is a request to spec your system - we'll quickly send full design and submittals.

FOR MORE INFORMATION:

The skilled professionals at Romtec Utilities have the expertise to evaluate an existing system and make recommendations and modifications that will make it work most efficiently with our pre-engineered package lift station, eliminating the extra expense of hiring electrical engineers and system integrators. The control panels offered by Romtec Utilities as part of its turnkey submersible lift station system are fully assembled and simple to install, use and maintain. For more information, call Romtec Utilities at 541-496-3541 or visit www.romtecutilities.com.