

# Pipe Lines

A SCADA-focused Newsletter from Data Flow Systems  
Issue 5, 2020



## Negotiating Reduced Budgets in 2021

How will water and wastewater utilities deal with the reduced budgets predicted for counties and municipalities in 2021?

Nationwide, it is estimated that the Coronavirus' cascading effects on state and county sales taxes and tourism-related revenue, along with delays in property tax payments, will result in the slashing of public works budgets by up to 30%. High dollar capital improvement projects are front-running candidates for these expected cuts.

But what if you could acquire that SCADA system, that new RTU or pump controller without having to make a large, up-front investment? What if you could procure the system or devices you need on a low, pay-as-you-go basis?

Data Flow Systems' concept of "SCADA as a Service," is a unique way of obtaining equipment that is essential to the operation of a water utility, without the need to shoehorn that large capital expense into an ever-shrinking budget. The concept applies to large, multi-purpose SCADA systems or to add-on devices, like a single RTU or our TCU800 pump controller.

This approach not only simplifies the acquisition of the system or device, but our warranty is the icing on the cake. DFS is already well-known for the

## TCU800 Pump Controller Release

Data Flow Systems is pleased to introduce our next generation pump controller: The TCU800



June 1, 2020 is the official release date of our fourth generation pump controller.

The TCU800 is a state-of-the-art pump controller designed to automate the operation of simplex, duplex and triplex sewer pumping stations. It is a new and improved version of the field-proven TCU001 pump controller that is currently operating tens of thousands of pumping stations throughout the US. The TCU800 boasts a 5 inch touchscreen operator interface, faster processing power, and additional on-board inputs for increased monitoring and motor protection capabilities. The TCU800 provides intuitive off-the-shelf control of a typical fixed speed pumping station, but is also customizable for Variable Frequency Drive (VFD) applications.

The TCU800 contains all of the necessary hardware and software to control pumps based on level input from floats, switches, bubblers, or pressure transducers. An integrated True RMS AC phase monitor provides accurate three-phase voltage readings and under/overvoltage motor protection. The TCU800 introduces additional on-board monitoring of CTs for motor current monitoring, as well as digital inputs for motor seal fail and thermal overload monitoring for all 3 pumps. The integrated H.O.A. switches are fail-safe and remain functional even if the TCU800 is not powered. Its touchscreen operator interface presents the operation menu, set-point adjustment, fault resets, and status indication with the touch of a finger. Ultra-bright LEDs provide at a glance indication of pump status, power status, alarm status and communications.

SCADA-ready with open Modbus RTU and ASCII protocols, the TCU800 is also available with optional factory integrated TAC II radio, network interface adapter, or Verizon cellular modem. For enhanced security requirements, AES-128 Encryption is also available with the factory integrated TAC II radio.

When utilized in the DFS TAC II SCADA System and DFS' Symphony-Harmonious Pump & Flow Management software, TCUs are utilized to coordinate the system-wide operation of pump stations for the

generous warranties on our products, but under the SCADA as a Service concept, the warranty lasts a lifetime. That bears repeating: Under the SCADA as a Service concept, our products carry a lifetime warranty.

Give us a call to learn more about SCADA as a Service.

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### **Get Your Repairs Completed and RAs Processed Now!**

The National Hurricane Center in Miami has already named a new tropical storm Arthur, some two weeks before the official start of Hurricane Season.

If your utility's shelves are housing items that need repairs, NOW is the time to put your spare parts inventory in full working order. If a hurricane hits the mainland this year, our repairs facility will be pushed to the max and RA turnaround times will likely lengthen.

So be prepared. Call today (321-259-5009) for an RA.

purpose of reducing force main pressures and equalizing flow into a treatment plant, reducing energy costs and solving daily peak-flow problems.

#### Features

- Easy to understand, install and use
- No PLC knowledge required
- Multiple operation profiles
- Redundant level sensing
- Configurable pump alternation
- Digital elapsed time meters
- True RMS 3-phase monitoring
- Alarm light and horn control
- Back-up battery w/integrated charger
- Free TCU800 configuration software
- Upload/download settings with Laptop
- Configurable via on-board 5" touchscreen
- Free factory support for life of product
- Three-year parts and labor warranty \*
- Three-year lightning damage warranty \*
- Expandable I/O Interface
- RS-485 Modbus Serial Radio Interface
- Customizable for VFD applications
- UL Listed for process control equipment
- Optional FIPS 140-2 Validated AES-128 Encryption

\* Are you interested in a lifetime warranty on your TCU800? Call our sales professionals at 321-259-5009 for more information.

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### **Upcoming Events**

DFS will attend the following events in June:

Texas City Managers Annual Conference  
South Padre Island Convention Center, TX  
June 4 – June 7, 2020

Texas Municipal Utilities Association Conference  
Texas A&M Hotel – Boulevard College Station, TX  
June 17 – June 19, 2020



*Customer service is not a department, it's an attitude.*