

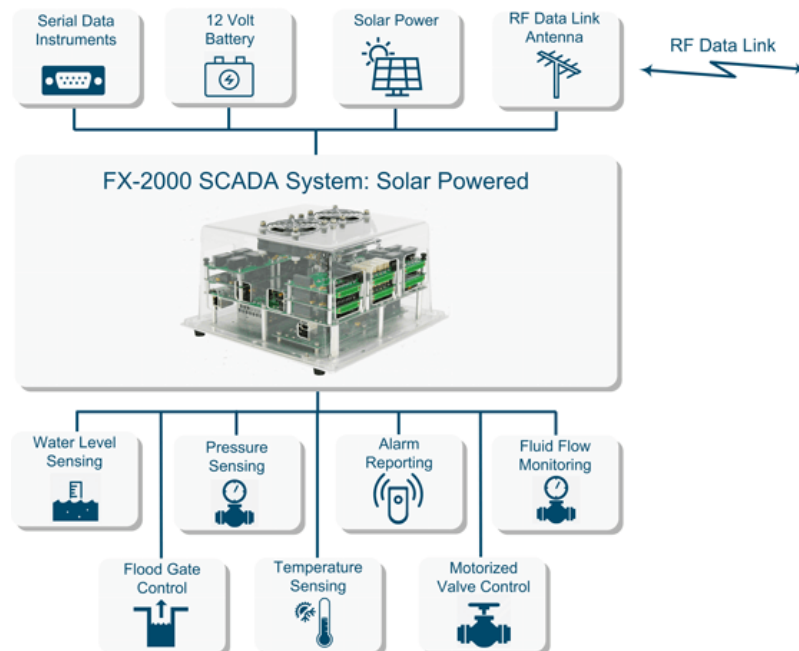
## White Paper

### FX-2000 Flex Shield System Capability and Flexibility

This white paper demonstrates the capability and flexibility of the FX-2000 Flex Shield system using a practical example case of two over-the-air linked systems. In the examples, a processing plant requires water from a nearby reservoir for product production. Water flow to the plant is managed by the supervisory control and data (SCADA) system with monitoring and control authority by the processing plant over a radio frequency (RF) data link.

#### FX-2000 SCADA System Example

The supervisory control and data acquisition (SCADA) system is a solar-powered system designed for remote unattended-operation. It collects data from serial-data instruments, analog and digital sensors, for automated control of the water-management flood gate and valves. During operation, it communicates system status to, and accepts control commands from, the processing plant over the RF data link.



#### FX-2000 Processing Plant System Example

The processing plant system, powered by an AC uninterruptible power supply (UPS) for immunity against AC line brownout and blackout events, queries and commands the SCADA system over the RF data link during water management activities while controlling various on-site automated production processes. Control and status of those processes and the SCADA system are accessible to plant operators through the Internet.

