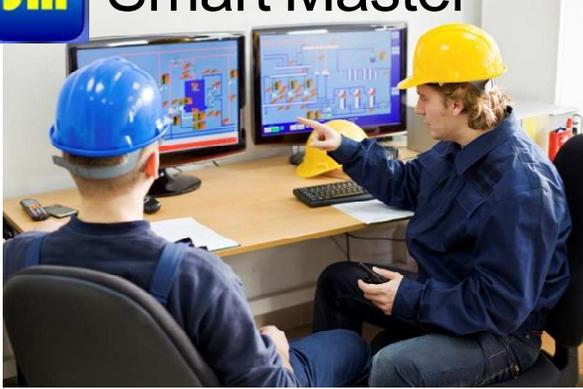


# Transmission and Distribution SCADA Solutions



Smart Master™



## PRODUCT BRIEF

The **Smart Master™ SCADA Master Controller** is an extremely powerful yet user-friendly SCADA Master Controller designed to provide complete remote and local operational control of Electric, Gas and Water Utilities. Originally designed for Municipals, Cooperatives and Public Power Districts, **Smart Master™** enjoys a wide deployment due to its wide ranging capability, modular configuration, expandability, ease of use and reasonable cost. The **Smart Master™** SCADA Master Controller is designed to run on any standard PC or Server Computer using the Windows® operating system. The **Smart Master™** is based on the Microsoft® SQL 2012 Server, a full sized industrial SQL database management system. **Smart Master™** system security is implemented through Microsoft® SQL providing the latest encryption, authentication, authorization and logging capabilities of SQL 2012 Server.

## CAPACITOR CONTROL

The **Smart Master™ Capacitor Control** component is responsible for executing automated capacitor control functions. This means running one or more of the following algorithms: VAR control, power factor control, current control, voltage control, temperature control, and time control. The component also does recording of demand, reactive power, power factor, and any other input parameter relevant to the algorithms being used, as well as capacitor bank activity logs.

## LOAD MANAGEMENT DEMAND RESPONSE

The **Smart Master™ Load Management** component is responsible for executing load management functions. This means running one or more of the following algorithms: peak shaving, average demand extrapolation, load rotation, and load state reinserting. The component also does demand recording, and maintains load activity logs.

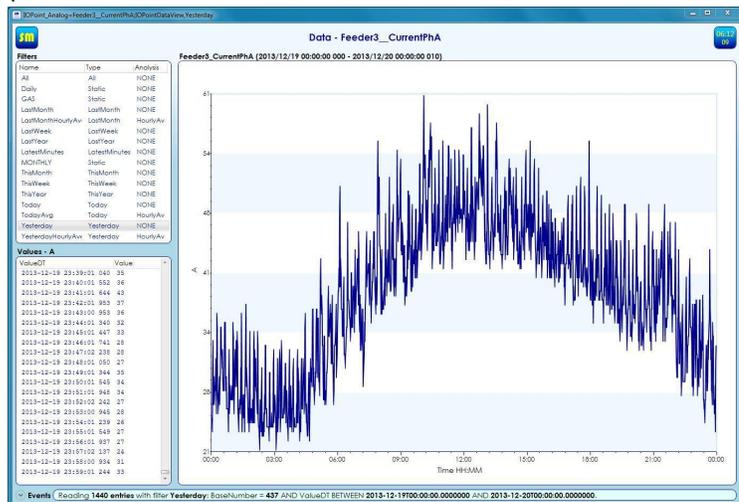
## COMMUNICATION & REMOTE ACCESS

**Smart Master™** communicates with remote devices simultaneously over a multiple of communication channels. Open and Proprietary protocols are supported and multiple protocols can be managed over a single communication channel. **Smart Master™** secure access allows your system to be viewed locally, on your network, or from anywhere in the world with a standard web browser.

**Monitor, Alarm, Record, Communicate and Control**

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The **Smart Master™ SCADA Master Controller** component is responsible for executing SCADA functions. These include remote unit database management, dispatching of control codes, polling of remote units, proper evaluation of incoming data, system status displays, etc. **Smart Master™** supports fully programable data acquisition and control logic through its built-in T-SQL compiler.



The **Smart Master™ Database Editor** is used for system parameter viewing, modification and exporting. The **Smart Master™ Event Viewer** is used for real-time viewing, searching, exporting and management of system events and alarms. The **Smart Master™ Data Viewer** provides real-time trending screens for any input or output defined in the database. With the **Smart Master™ Report Generator** Users can define custom reports with little or no programming knowledge. Tables, charts, plots and more can be rendered in html, MS Excel®, MS Word® or .pdf and generated by demand or on a scheduled basis. Reports can be dispatched to select users via e-mail or on a subscription basis.



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