

Smart Switchboard

The Power of SMART

Revolutionary Switchboard Platform with Embedded Intelligence



Figure 1. SMART HMI in remote enclosure

What is Smart Switchboard?

- **Pre-configured** and **pre-programmed** switchboard
- Out-of-the-box **remote monitoring**
- **Real-time control** of embedded intelligent devices through HMI
- HMI integrated into switchboard or through remote panel

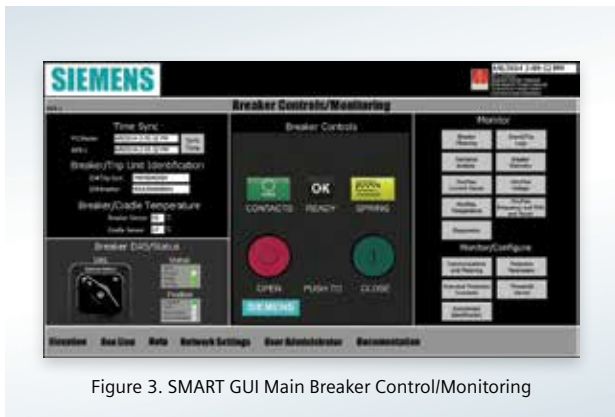


Figure 3. SMART GUI Main Breaker Control/Monitoring



Figure 2. SMART Switchboard

Why Smart Switchboard?

- Remote access outside the arc flash hazard boundary
- Increased safety for personnel during breaker operations (open/close, racking, DAS activation)
- Faster commissioning and start-up
- Configurable, self-monitoring apparatus that is easier to design, specify, commission, and operate

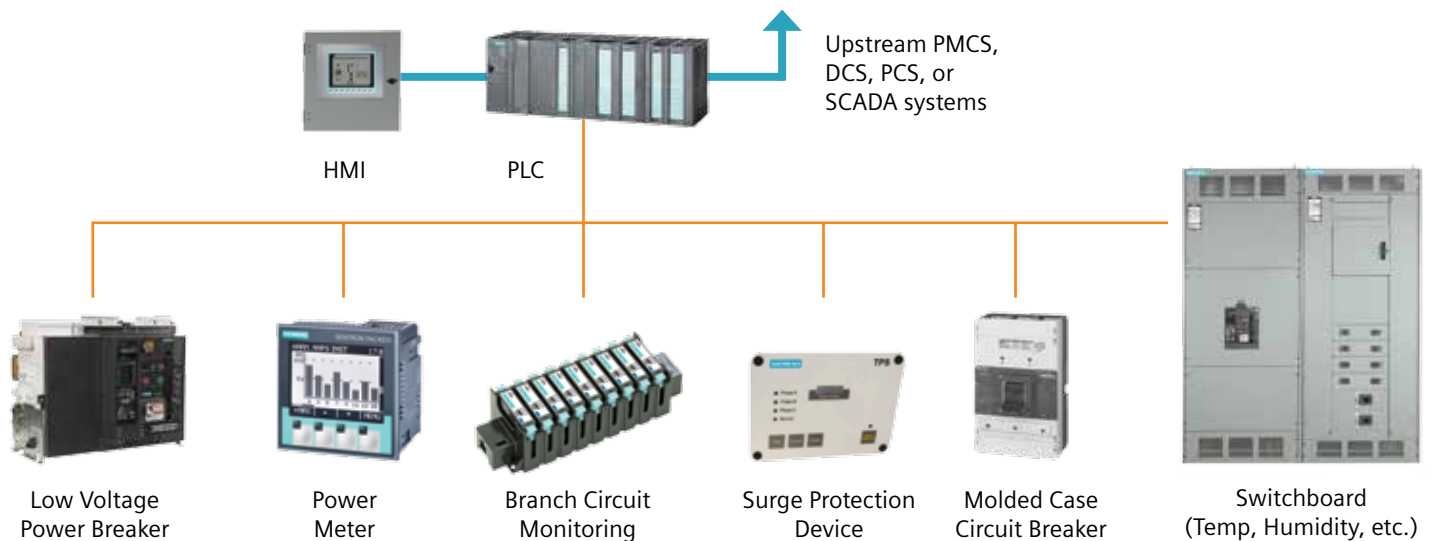
Smart Switchboard Standard Features

- Siemens S7-300 PLC with pre-programmed software to monitor, configure and control devices
- 15" HMI pre-programmed with GUI
- Profibus communication linking intelligent devices, PLC and HMI
- Power/Insulated Case Circuit Breaker features
 - ETU 776 with Dynamic Arc Sentry (DAS)
 - Protective relaying and alarm functions
 - Power metering functions
 - Electrically operated breakers with charge motor, shunt trip, and remote close coil
- Molded Case Circuit Breaker Features
 - ETU 586
 - Breaker status
 - Current monitoring
 - Breaker operations

Smart Switchboard Optional Features

- S7-400 hot swappable redundant PLC
- 19" HMI
- Environmental monitoring
 - Ambient, humidity, smoke, water
- Bus bar temperature monitoring
- Power cable temperature monitoring
- Automatic throwover
- Zone differential relaying
- Load shedding
- Control power monitoring
- Remote breaker racking device
- Enhanced historical event logging
- High resistance grounding

Smart Switchboard Architecture



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