

Smart Switchboard

# The Power of SMART

Revolutionary Switchboard Platform with Embedded Intelligence



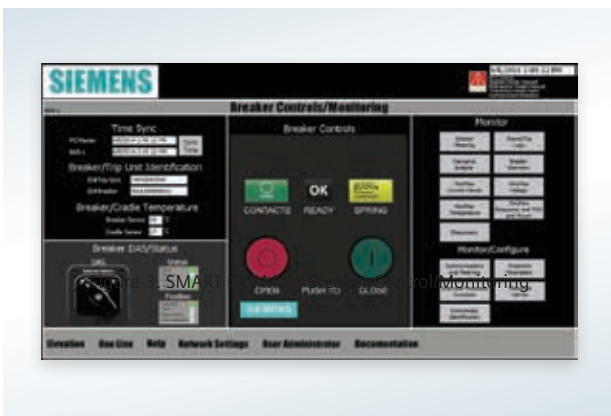
Figure 1. SMART HMI in remote enclosure

### 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 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

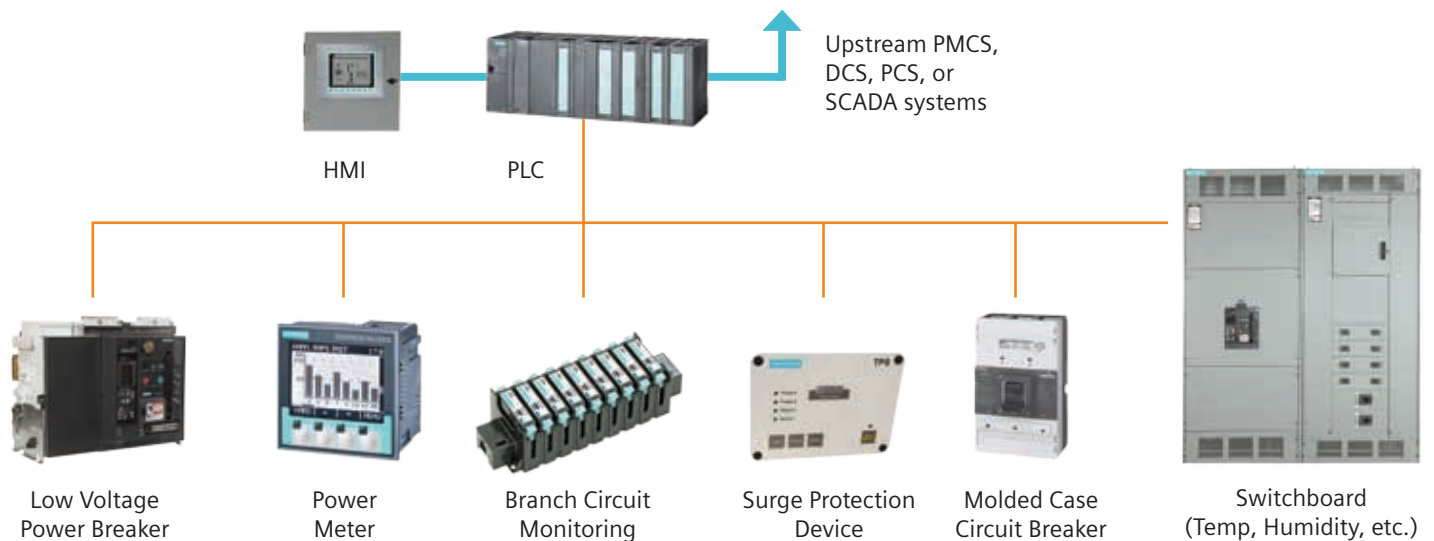
## Smart Switchboard Standard Features

- 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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