

DIGITAL INDUSTRIES SOFTWARE

Simcenter SCADAS RS Configuration App

Simcenter/SCRS/2024/20240510

Product Information Sheet

Summary

The Simcenter SCADAS RS Configuration App is a license-free app embedded on the Simcenter SCADAS RS conditioning units (U12, S24, B24-350 and B24-120). The app is pre-installed and is accessible through any web browser on a PC, tablet or smartphone, via a UTP connection or wireless - hooking the Simcenter SCADAS RS units into a company network. The app is touch-enabled and adapts to any screen resolution.

The app covers the instrumentation process: you can create or modify channels setups, monitor data in real time and calibrate single or multiple channels.

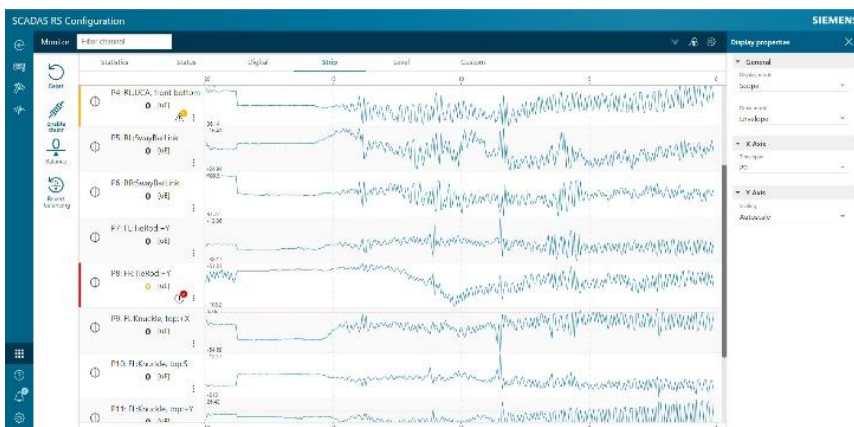
The Simcenter SCADAS RS Configuration App is particularly suited for parallel instrumentation: each Simcenter SCADAS RS conditioning unit can be prepared independently, and once the units are connected to a Simcenter SCADAS RS REC Unit, the information of each individual unit is read out and merged.

BENEFITS

- License-free, pre-installed App
- Direct feedback while instrumenting: alarm notifications, real-time digital displays and prominent key metrics

FEATURES

- On-board app covering the instrumentation phase
- Accessible from any device via web browser
- Single channel setup
- Parallel instrumentation
- On-board channel setup persistency
- Online data viewing while scoping
- Touch-enabled
- Adapted to any screen resolution



Powerful channel setup

At start-up of a Simcenter SCADAS RS unit, the channel setup as stored on the non-volatile memory is loaded.

Channel editing can be done individually or on multiple channels at once. Sensitivities are filled in manually or are a result of one of the available calibration procedures

Once a channel setup is complete, you can persist the settings on the unit.

Once you hook up this conditioning unit to a Simcenter SCADAS RS REC Unit, the channel setup is read out and merged according to the actual topology.

During the channel instrumentation, the app provides instant graphical and tabular feedback per channel. You can monitor time data, statistics and frequency information.

Detailed features

- Creation of a complete channel setup from scratch: channel description, conditioning, sensitivity model and user-defined limits
- Editable channel list in grid and card view mode, including multi-channel editing and channel duplication and copy values into MS Excel
- TEDS reading (Class I)

- Wiring diagram for each type of conditioning
- Lock /unlock of the channel list to avoid accidental changes
- Channel settings are persisted on the conditioning unit
- Channel settings can be read out from the conditioning unit
- Dedicated single channel setup
 - Time and frequency scope
 - Statistics in engineering and electrical values
 - Level bar
 - Wiring scheme
- Calibration tools – including calibration date
 - 2-point Calibration (DC) - Multiple sensors at once
 - Setpoint Calibration via Zeroing or Balancing - Multiple sensors at once
 - Lead wire Calibration – shunt calibration for
 - Strain gauges and bridge-based sensors
 - Quarter, Half and Full Bridge
 - Internal or external shunting
- Checks on sensitivity and offset:
 - Shunt check
 - Offset check
 - Headroom check

Monitoring

- Central buttons for zeroing/ balancing and enable/disable all shunts
- Critical information is always visible, e.g. overload and status info
- Status view for quick monitoring of all channels at once: warnings and alarms, both as instantaneous and latched
- System health and channel notifications, e.g. detection of overload or sensor supply issues.
- Digital view for monitoring instantaneous values of any channel - the number of channels to be displayed is freely configurable
- Strip chart view for on-line time signal validation of any channel – in scope or condensed history mode. Free layout zooming to visualize the right amount of channels

- Level view showing the actual value and overall max and min of any channel, including color scale for normal, warning and alarm levels
- Table view displaying single value statistics per channel:
 - Actual value
 - Overall values: Min, Max, Mean, RMS, Range
- Custom view to create your own favorite layout based on a variety of displays such as digital, analog, strip, XY and 2D. The strip allows to visualize the full-sampled time trace
- From any view you can access and edit the channel information or go to the Single channel setup

Product status

- Support desktop web browsers:
 - Google Chrome
 - Microsoft Edge
 - Mozilla Firefox
 - Opera
 - iOS Safari
 - QQ browser
- Support handheld web browsers:
 - Google Chrome
 - Mozilla Firefox
 - Samsung Internet
 - Google browser
 - Opera Mobile
 - iOS Safari

