SCR 2.0

Synchroscope/Synch check relay

SCR 2.0 is a microprocessor controlled synchroscope with programmable synch check relay in a DIN96 front panel mounted package. It monitors the voltage and frequency of 2 independent power sources as well as the instantaneous phase angle between them.

The measured parameters are displayed on the 3 digit display and the 24 led circular synchroscope displays the phase angle between the 2 power source. The synchroscope display is only activated if both power source voltages are within the set limits.

ADVANTAGES

- Synch check relay
- Front panel configurable
- 50/60 Hz comptability
- Basic unit

SCR 2.0 MODULE FRONT VIEW

SCR 2.0 MODULE REAR VIEW

Part numbers:

A60X2 SCR 2.0 Module

FEATURES & SPECIFICATIONS

A SIMPLE PRODUCT FOR SAFETY FUNCTIONS

Synchronization checking is enabled either via the **SYNCH CHECK ENABLE** signal input or by pressing the front panel **SYNCH** pushbutton. If all the necessary conditions are satisfied:

- Busbar phase (busbar phase voltage) voltage between set limits.
- Generator phase voltage between set limits.
- Busbar-generator frequency difference below the set limit.
- Busbar-generator voltage difference below the set limit.
- Busbar-generator phase difference (phase difference below) below the set limit.

The **SYNCH CHECK** relay will be energized. If the busbar is not powered up, the synch checking may be overridden with the **DEAD BUS ENABLE** signal input.

FRONT PANEL CONFIGURATION

SCR2.0 provides a comprehensive set of digitally adjustable threshold and timers. All settings are modified via front panel pushbuttons, and do not require an external unit. The **MENU** pushbutton allows the digital display to navigate between various measured parameters. The front panel is IP65 for the front panel, IP30 for the rear.

RELIABLE AND SIMPLE

SCR2.0 is dedicated to basic applications which require no extra costs or expensive hardware. All CRE TECHNOLOGY products aim to provide the same satisfaction levels. The **SCR2.0** has passed EMC and low voltage tests, and each unit is 100% tested before delivery.

RELAY OUTPUTS

The unit provides a synch check relay output with voltage free contacts.

FEATURES

24 led circular synchroscope, programmable ΔV, Δf, Δθ for check synch relay, 1 phase genset & busbar voltage input, auto power off, adjustable parameters, lug-in connection system for easy replacement.

CURRENT, VOLTAGE AND FREQUENCY

- **Generator voltage:** 300 V_{AC} max. (Ph-N)
- **Generator frequency:** 0-100 Hz.
- **Busbar voltage:** 300 V_{AC} max. (Ph-N)
- **Busbar frequency:** 50/60 Hz.
- **Digital inputs:** 0 - 30 V_{DC}.
- **DC supply range:** 9.0 to 33.0 V_{DC}.
- **Current consumption:** 100 mA-DC.
- **Max. operating current:** 150 mA-DC (Relay outputs open)
- **Synch check relay output:** 16A/250V_{AC}

DIMENSIONS AND WEIGHT

- **Dimensions:** 102x102x57mm (WxHxD)
- **Panel cut-out dimensions:** 92x92mm minimum
- **Weight:** 170 g (approx.)
- **Installation:** Flush mounted with retaining plastic brackets

ENVIRONMENT & PROTECTIONS

- **Operating temperature:** -20°C (-4°F) to 70 °C (158°F).
- **Storage temperature:** -30°C (-22°F) to 80 °C (176°F).
- **Maximum humidity:** 95% non-condensing.
- **Case:** High Temperature ABS (UL94-V0, 100°C)

DIRECTIVES

- Low voltage
- **EU Directives:** 2006/95/EC (LVD), 2004/108/EC (EMC)
- **Normes of reference:** EN61010 (safety)/EN61326 (EMC))

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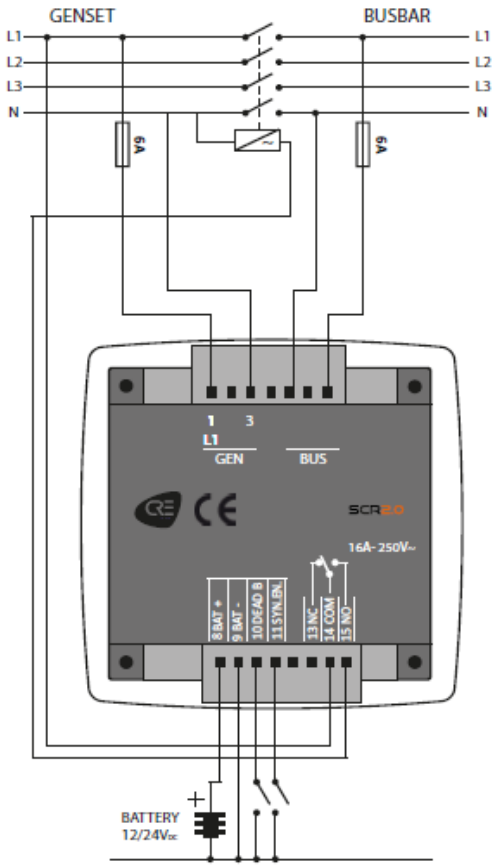
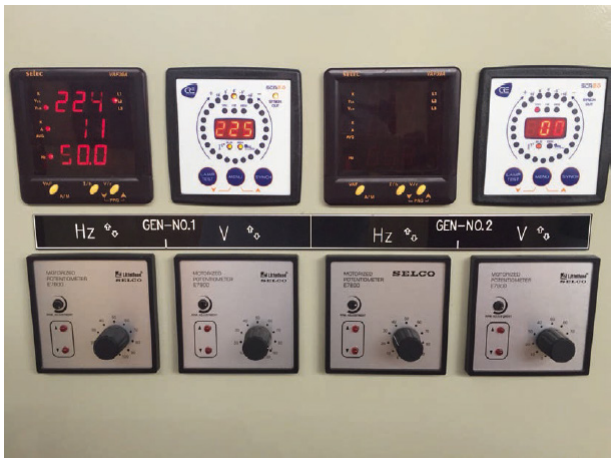
APPLICATIONS

The **SCR 2.0** unit works in High-Voltage/Low-Voltage applications where it will test the phase-to-phase synchronization in 100V (rather than phase-neutral). Adjust parameters accordingly.





RELATED PRODUCTS

The **GENSYS COMPACT PRIME CORE** is made for gensets used in power plant applications requiring synchronizing, active and reactive load sharing and electrical/mechanical protections. **GENSYS COMPACT PRIME CORE** offers fl exibility and time saving thanks to its simple wiring, all features included (no option), and easy engineering & programming.

The **GENSYS COMPACT MAINS CORE** is used on standalone genset in mains paralleling application. **GENSYS COMPACT MAINS CORE** range offers fl exibility and time saving thanks to its simple wiring, all features included (no option), and easy engineering & programming.

GENSYS COMPACT MAINS CORE
BASE MOUNTED VERSION

GENSYS COMPACT PRIME CORE
BASE MOUNTED VERSION

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