



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.

This product offers the following advantages :

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



SCR 2.0 MODULE FRONT VIEW



SCR 2.0 MODULE REAR VIEW



PART NUMBER

A60X2

KEY FEATURES

➤ 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

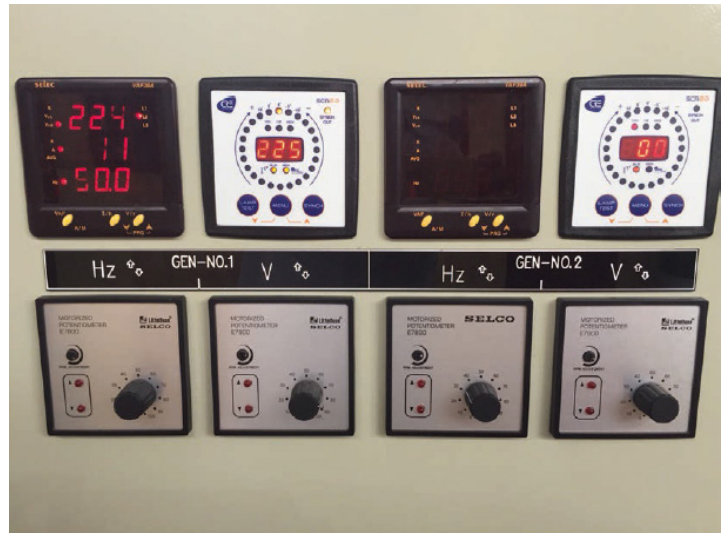
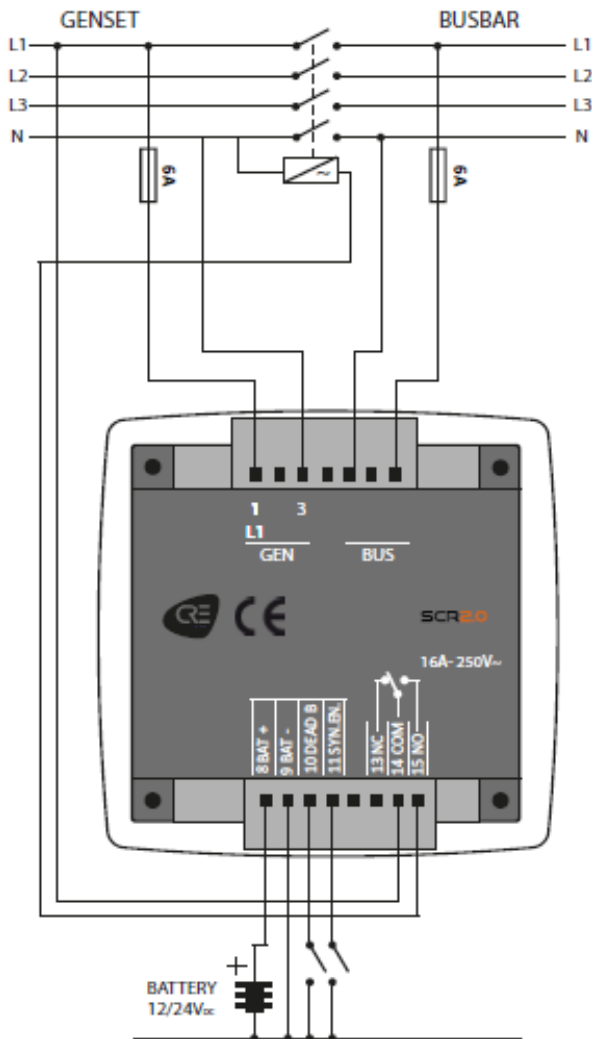
- 24 led circular synchroscope, programmable ΔV , Δf , Δu for check synch relay, 1 phase genset & busbar voltage input, auto power off, adjustable parameters, lug-in connection system for easy replacement.



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.



CERTIFICATIONS

DIRECTIVES

Low voltage

EU Directives

Normes of reference

2006/95/EC (LVD), 2004/108/EC (EMC)

EN61010 (safety)/EN61326 (EMC)



SCR 2.0

Synchroscope/Synch check relay

SPECIFICATIONS

CURRENT, VOLTAGE AND FREQUENCY

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

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	ABS (UL94-V0, 100°C)

RELATED PRODUCTS

CONTROLLERS

A56-MAINS	GENSYS COMPACT MAINS
A56-PRIME	GENSYS COMPACT PRIME

