SVERKER 900	Relay and Substation lest s	oystem Quick Guide		Main instrument	Test file manager
Always comply with local safety regulations when using SVERKER 900. Read and comply with the safety instructions in the User's manual before using SVERKER 900.				OFF+TIME OFF+TIME: Current source is turned off. When	Quick save
Home menu	General	U1 I1	Voltage mode. Detects if	the object being tested	SAVE Test
- Main instrument	Home menu	U2 I2 Voltage and current generators (UG and IG)	Contact mode. Detects if	displayed. SVERKER returns to OFF mode.	OPEN Test
Prefault - Fault instrument	Confirm	U3 I3 Press to toggle OFF/ON.	BI Turns on the selected binary	A lamp at the input is on when voltage is present or	Save to USB
	— Run	© = ⊙ Set % of basic & harmonic	BI Turns off the selected binary	the circuit is closed.	Open USB
Ramping instrument	Exit	Equals values for current,	mput.	ON+TIME is activated until the object being tested has operated.	Create new test file
1,2 Sequencer instrument	Browse left/right	Balances the phase angle		The time is displayed and SVERKER returns to OFF	Open test file library
CT-Magnetizaton instrume	BI BI1 The trigger level can be defined when voltage mode is selected.	0 VDC U4-DC: Setting the voltage for the U4 generator.		mode. HOLD Main: Freezes Pick-up and	Edit test
Z Impedance instrument	BI BI2-BI4 The trigger levels are fixed.	BI inputs. Ext Timer & BI1-BI4		Drop-off voltage/current. Measuring: Sets the instrument into	Delete From all instruments you can save any
Test File Manager	— Red dot Input is active. ≥1 Input is logic connected to another input with OR function.	Internal Start/Stop The Ext Timer follows the ON/OFF generating mode.	Configuration for UG/ IG	measurement mode. To stop measurement mode, press the button again.	test results or test configuration in SVERKER 900 persistent storage or to an external USB memory.
System configuration	& Input is logic connected to another input with AND	A voltage is applied to the input or when a contact is closed	Cenerators in series	Measurement mode is not settable if Advanced mode is selected in the system	When you save a test the first time you select where to save the test. A second test will be default be saved in the
Settings for UG/IG		A voltage applied to the input vanishes or when a contact is opened.	Generators in parallel Use as a fourth generator or as an auxiliary power source	Configuration menu. View the Frequency (Hz), Power (VA and W) ,	previous used test file.
		When the state of the input changes.	Select AC or DC	Impedance (R and Z) and phase angle values.	

## Prefault - Fault instrument Prefault

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Select generators to be active and configure the voltage, current, phase and frequency parameters for each.

### Fault + Time $\sqrt{}$

+ Configure the two timing parameters; the max time duration, for how long the Fault state will be generated and the off delay duration, which is the time period after the test object has triggered and until the output generation will be switched off.



**Prefault-Fault** Generates the Prefault condition for the set time duration and then change to Fault state until any of the following conditions are met:

- Maximum configured time duration has time-out
- Test object trips
- You press the stop button



Prefault->Fault scenario. The difference is that you can configure a ramping condition, between the Prefault and the Fault state. This includes the stepchanges in voltage, current, phase and/ or frequency, as well as the ramping time duration.

Measurement mode, see main instrument, can only be set in "Set ramp start" mode.

Sequencer instrument Copy or delete state Go to first / last state Go forward / backward etween states STATE 🕨 Activates BI & Stop condition for selected state Set the time for 250 ms selected state END SEQ Set the end of sequence BO Select BO position

Set voltage or contact sense BI 🌩 STATE Stop condition for selected state Set contact condition for BI the binary inputs



nsert selected state עי nsert and replace state Copy selected state Delete state



# Fault + Manual pickup Prefault-Fault Manual binary search Configuration Advanced configuration CT direction Cartesian diagram Polar diagram Reset to factory settings

Using the Impedance instrument you configure sequence(s) with different states including impedance entry mode

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# Adhesive