

**CONFIGURATION
MANUAL**

STATYS XS

16A / 32A

EN



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1. GENERAL CONFIGURATION

The configuration tool gives the possibility to adapt the STATYS XS setting according to specific operating requirements.



This document shall be read in detail before to apply any change on the **GENERAL CONFIGURATION**.



1 Connect Setting: COM PORT (COM7), BaudRate (9600), Connect button, Company Name (SOCOME), Model Name (STATYS XS), Serial Number, Firmware version (ATS11830), Cabinet Temperature (40), Installation date (2018/01/05), Default, Read, Write buttons.

2 General Configuration - ID Number: 1 (1 ~ 255)

3 General Configuration - Reference source: N/A, Delay Return on P.S.: 3 Sec (3 ~ 60), Auto Return Retry No. of Times: 2 (1 ~ 99), Synchronized Transfer Only: No, Phase angle \leq : 10 (10 ~ 180)

4 General Configuration - Overload shutdown delay settings: 110% (60 Sec), 120% (30 Sec), 151% (5 Sec), 201% (1 Sec), Pre-alarm load level >: 100% (20%~110%)

5 General Configuration - Source A settings: trip voltage Upper/Lower window (10%), recovery Upper/Lower error voltage (5V), trip frequency Upper/Lower window (10%), recovery Upper/Lower error frequency (0,5 Hz)

6 General Configuration - Source B settings: trip voltage Upper/Lower window (10%), recovery Upper/Lower error voltage (5V), trip frequency Upper/Lower window (10%), recovery Upper/Lower error frequency (0,5 Hz)

7 Relay Setting Table:

Relay	Contact	Event 01	Logic	Event 02	Keep active before shutdown
Relay 1	NC	Pre-alarm active	AND	N/A	Disable
Relay 2	NC	Cabinet temperature abnormal	AND	N/A	Disable
Relay 3	NC	Source A Voltage Abnormal	OR	Source A Frequency Abnormal	Disable
Relay 4	NC	Source B Voltage Abnormal	OR	Source B Frequency Abnormal	Disable
Relay 5	NC	General Alarm (any abnormal condition)	AND	N/A	Disable

1 CONNECTION OPTION AND PRODUCT INFORMATION

COM PORT: Selects the connection port of the computer equipment terminal.

Baud Rate: Selects the communication Baud rate (standard fixed rate is 9600).

Connect: Click to start the connection between the Configuration tool and STATYS XS.

Cabinet Temperature: Displays the internal temperature of the equipment.

Installation date: Equipment installation date (Year/month/day).

Default: Click this button and the default factory values will be displayed in all fields.

Read: Click to read the setting information of the STATYS XS equipment terminal.

Write: Click to write all the parameter setting values on the displayed page to the STATYS XS equipment.

2 INPUT AND OUTPUT RATING SETTINGS

ID Number: Set the required ID number when the monitoring software is monitoring multiple units.

Input rating Voltage / Frequency: Rated voltage and Frequency.

Output current limit: Allow to reduce the rated current according to the surrounding installation. The overload alarms management is related to this value.

3 PREFERRED SOURCE AND ASYNCHRONOUS TRANSFER SETTINGS

Preference source: Selection of the preferred input source.

- N/A: Turns OFF the STATYS XS auto-return function; which means that a transfer action will only occur when the input source on conducting path is abnormal or via manual command.
- Preferred source A or B: When a “preferred source” is selected, the system will always automatically return to the chosen source if it is within the set tolerances.

Delay return on PS (Preferred Source): Sets the waiting time before STATYS XS automatically returns to “preferred source”, if selected.

- Settable range: 3sec ~ 60sec.

Auto Return Retry No. of Times: The number of times STATYS XS automatically returns to “preferred source” (when selected) within a time slot of 1 hour.

- Settable range: 1 ~ 99 times (within 1 hour).

Example with source A as preferred source: When source A is abnormal, STATYS XS transfers to source B; when source A returns to normal, the system will automatically return on the selected “preferred source”.

If the number of automatic return exceeds the number set here within an hour, another transfer will result to automatically change the “preferred source” setting (A <-> B). This feature limits multiple consecutive transfers in case the preferred source is unstable.

Synchronized Transfer Only: Sets whether to check the phase differences between the two input sources before STATYS XS performs transferring.

- NO: Allow transfers from one source to the other, whatever the phase shifting.
- YES: Allow transfers from one source to the other only if they are considered synchronized (within the configured “Phase angle \leq ”).



If the two sources are not synchronized while this setting is activated: STATYS XS shuts OFF the load (instead to transfer) in case the conducting source fails; An alarm is displayed.

Phase angle \leq : Sets the maximum phase angle difference to consider the sources are synchronized.

- Settable range: 10° ~ 180°.

4 OVERLOAD CAPABILITIES ADJUSTMENT

It is possible to adjust the overload management to meet specific needs

111% overload shutdown delay:

Sets overload 111~125% shutdown delay time, settable range 30~60 seconds.

126% overload shutdown delay:

Sets overload 126~150% shutdown delay time, settable range 5~30 seconds.

151% overload shutdown delay:

Sets overload 151~200% shutdown delay time, settable range 1~5 seconds.

201% overload shutdown delay:

Sets overload \geq 201% shutdown delay time, settable range 0~1 seconds.

Pre-alarm load level \geq : allow setting a preventive load rate alarm.

- Settable range: 20~110%.
- For example: If set at 80%, when the STATYS XS load rate is over the 80%, the system will activate the Er32 alarm. However, this setting does not impact the real overload behavior: it simply gives a warning.



If set to 110% the STATYS will not give a warning when the load is between 100% and 110%.

Delay time for recognition source power: The source needs to be within the set tolerance during this Delay before to be considered available.

6 5 SOURCE A & B SENSITIVITY CONTROL

Sets the A and B upper and lower tripping percentage of the nominal value for voltage and frequency. Sets the A and B lower and upper recovery percentage for voltage and frequency

7 DRY CONTACT CUSTOMIZATION

Contact: Sets the Dry Contact Relay drive mode.

- NC: When no events occur, the default for Relay is NC (Normally Closed); when events occurred, Relay will become NO (Normally Open).
- NO: When no events occur, the default for Relay is NO (Normally Open); when events occurred, Relay will become NC (Normally Closed)

Event 01: Sets the Event 1 that the Dry Contact's internal relay corresponds to.

- For example: Relay1 is set as "Source A Not Connected": When "Source A Not Connected" occurs, Relay 1 will open or close according to the Relay drive mode.

Logic: Relay triggering condition.

- OR: Triggers if either Event01 or Event02 occurs.
- AND: Triggers only if Event01 and Event02 both occur.

Event 02: Sets the Event 2 that the Dry Contact's internal relay corresponds to.

Keep active before shutdown: Sets whether to maintain the relay status when an event is returned or not.

- When the "Source A Not Connected" event occurred, Relay1 is turned On; and when the "Source A Not Connected" event is over, whether to maintain Relay1's On status, or restore it to the Closed status.



This setting shouldn't be used a standard applications.

Refer to STATYS XS product manual for the list of available alarm.

2. MEASUREMENTS

The screenshot shows the 'Configuration Tool' window for a Socomec device. The 'Measurements' tab is active, displaying the following data:

<u>SOURCE A</u>			<u>OUTPUT</u>		
Voltage	232	V	Voltage	234	V
Frequency	50	Hz	Frequency	50	Hz
			Current	0	A
			Load Rate	0	%

<u>SOURCE B</u>		
Voltage	233	V
Frequency	50	Hz

The interface also includes a 'Connect Setting' section with COM PORT (COM7) and BaudRate (9600), and a 'Company Name' field (SOCOMEK). The 'Model Name' is STATYS XS. The 'Firmware version' is ATSI1830, 'Cabinet Temperature' is 40, and 'Installation date' is 2018/01/05. The Socomec logo and 'Innovative Power Solutions' tagline are visible in the top right corner. Buttons for 'Default', 'Read', and 'Write' are located below the logo.

3. SERVICE

The tool allows setting the date of installation.



This date is an informative data accessible to the user; it is by consequence not applicable to any warranty claim.

Configuration Tool

Connect Setting

COM PORT: COM7 Company Name: SOCOME

BaudRate: 9600 Model Name: STATYS XS

Firmware version: ATS11830

Cabinet Temperature: 40

Installation date: 2018/01/05

Default Read Write

General Configuration Measurements Service

Installation date(Month/Day/Year): 05/01/2018

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