

### QUICK START IN 125A - 630A

Motorised Source Changeover Switch Automatic Transfer Switching Equipment

### Preliminary operations

Check the following upon delivery and after removal of the

- · Packaging and contents are in good condition.
- The product reference corresponds to the order.
- · Contents should include:

Qty 1 x ATyS t

Qty 1 x Emergency handle and fixing clip Quick Start instruction sheet

### Warning

Risk of electrocution, burns or injury to persons and / or damage to equipment.

This Quick Start is intended for personnel trained in the installation and commissioning of this product. For further details refer to the product instruction manual available on the SOCOMEC website.

- . This product must always be installed and commissioned by qualified and approved personnel.
- Maintenance and servicing operations should be performed by trained and authorised personnel.
- Do not handle any control or power cables connected to the product when voltage may be, or may become present on the product, directly through the mains or indirectly through external circuits.
- · Always use an appropriate voltage detection device to confirm the absence of voltage.
- · Ensure that no metal objects are allowed to fall in the cabinet (risk of electrical arcing).

Failure to observe good enginering practises as well as to follow these safety instructions may expose the user and others to serious injury or death.

### Risk of damaging the device

. In case the product is dropped or damaged in any way it is recommended to replace the complete product.

### Accessories

- · Bridging bars and connection kits.
- Control voltage transformer (400Vac -> 230Vac).
- DC power supply (12/24Vdc -> 230Vac). . Mounting spacers to raise the product x 10mm.
- · Phase barriers.
- Terminal shrouds · Terminal screens.
- · Auxiliary contacts (Additional). • Padlocking in 3 positions (I - 0 - II).
- Lockout accessories (RONIS EL 11 AP).
- · Door escutcheon frame.
- ATyS D10 Interface (remote display).
- Voltage sensing kit.
- Sealable cover. • RJ45 cable for ATyS D10 => ATyS t

For further details refer to the product instruction manual under chapter "Spares and Accessories"

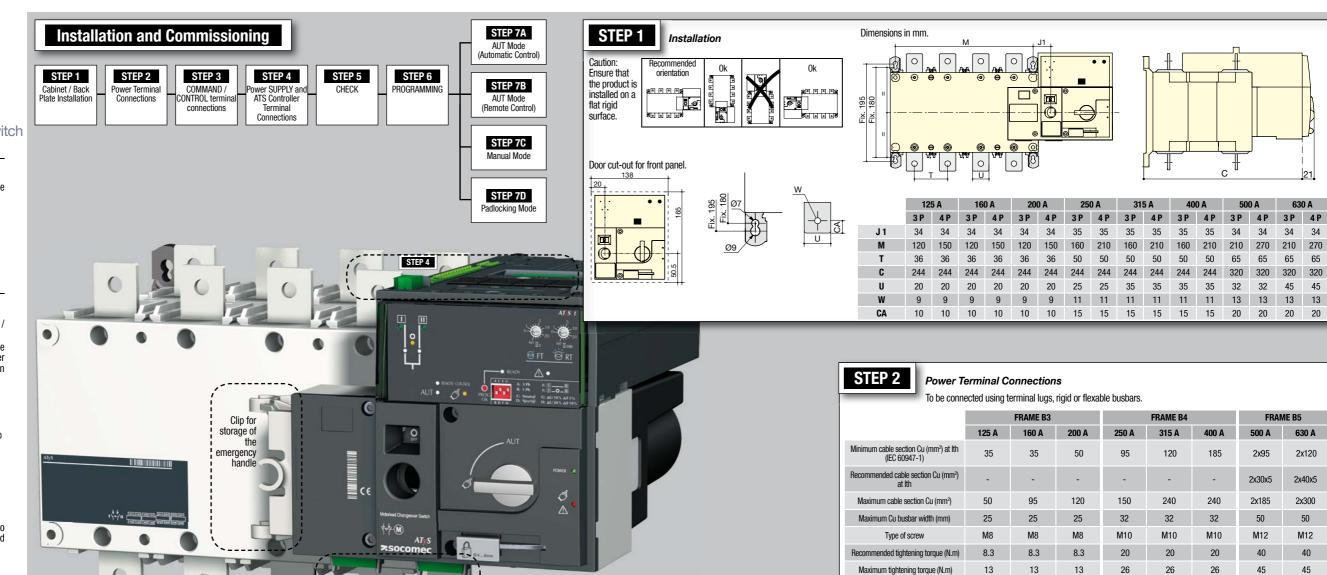


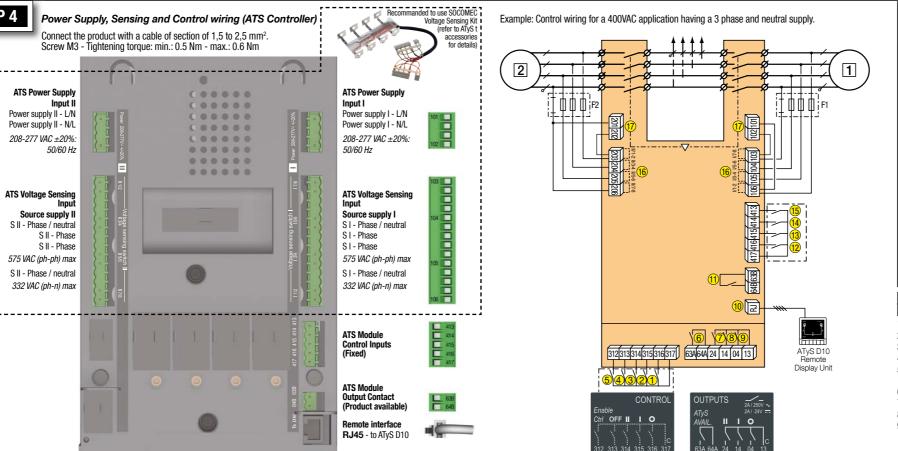
To download, brochures, catalogues

Printing informations: 1 color Black. White paper 90g/m<sup>2</sup> Printing size: 420x297. Final size 210x297. This page visible first. A separate sheet for each language.

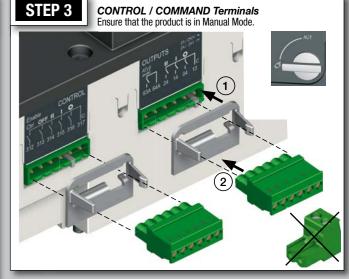
CORPORATE HQ CONTACT: SOCOMEC SAS, 1-4 RUE DE WESTHOUSE, 67235 BENFELD, FRANCE







STEP 3



- preferred source alternate source
- 1. Position 0 order
- 2. Position I order
- 3. Position II order 4. Zero position priority order
- 5. Remote Control Enable (Priority over
- 6. Product Available output (Motor)
- 7. Position II aux contact
- 8. Position I aux contact 9. Position 0 aux contact

10. O/P to ATyS D10 remote display 11. Product Available output (ATS)

500 A

34

32

500 A

2x95

2x30x5

2x185

50

M12

40

45

630 A

2x120

2x40x5

2x300

50

M12

40

45

- 12. I/P Inhibition of the ATS controls
- 13. I/P Manual retransfer (RTC) 14. I/P to define the source priority: Source priority set to S2 if closed,
- 15. I/P with/without source priority: no source priority when closed
- 16. Voltage Sensing Inputs

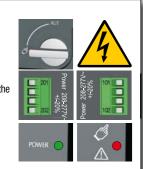
S1 if open

17. Power Supply Inputs

STEP 5

Check Whilst in manual mode, check the wiring and if ok power up the

LED "Power" Green: ON LED Manuel/Fault Red: ON



# The ATvS t is programmed after wiring verification tests through

STEP 6

in 5 steps: **Note:** Ensure that the ATyS t is

1 Set Dip 2 Set Por ACEG the front of the ATS Controller BDFH in "Manual Mode", powered and with at least one network supply

**PROG** 

Programming the ATyS t

MARNING As a safety measure the READY LED will flash when any of the settings shown on the controller are different to those that are saved. To return to the steady READY LED revert to the saved setting values or save the displayed value by pressing the PROG OK button briefly. (This is intended as a visual alarm in case one has changed the configuration settings but has not yet saved the new values in the product). For added security the ATyS t may be

equipped with a sealable cover so as to limit

the access to configuration settings. Refer

to the product accessory section for details.

## 1 Set Dip A C E G

### **Dip Switch Setting Options**

SET the 4 Dip Switches using a small screw driver. Possible variants vary from positions "A to H" as described in the table below. For convenience, the position functions are also described on the front of the ATS controller adjacent to the dip switches.

Note: The READY LED will flash green as soon as settings are changed and until the new settings have been saved by pressing the PROG OK button momentarily.







available.

Dip Switch Setting Options											
Dipswitch 1 A / B	Α	Three Phase Network									
	В	Single Phase Network (Attn : Dipswitch 2 is inactive in this position)									
Dipswitch 2 C / D	С	Three Phase 4 wire Network (Including Neutral) (Allows to detect a loss of neutral for unbalanced loads)									
	D	Three Phase 3 wire Network (Without Neutral)									
Dipswitch 3 E / F	Е	Load supply down time of 0 second (0DT = 0 sec)									
	F	Load supply down time of 2 seconds (0DT = 2 sec)									
Dipswitch 4 G / H	G	Threshold Delta U: 10% / Delta F: 5%									
	Н	Threshold Delta II · 20% / Delta F · 10%									



### **Potentiometer Setting Options**

SET the 2 potentiometers using a small screw driver paying attention to the arrow indicating the position. There are a total of 14 positions for which the specific settings are described in

Note: The READY LED will flash green as soon as settings are changed and until the new settings have been saved by pressing the PROG OK button momentarily.



# Potentiometer 1 FT Supply Source Failure time: 0 to 60s

Potentiometer 2 RT Supply Source Return Time: 0 to 60 min

	Position Setting Identification														
FT (sec)	0	1	2	3	4	5	8	10	15	20	30	40	50	60	
RT (min)	0	1	2	3	4	5	8	10	15	20	30	40	50	60	



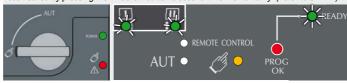
### **Auto Configuration of Mains Voltage and Frequency**

The ATySt includes an "Auto Configuration" feature to detect the mains voltage and frequency nominal values, phase rotation and neutral position and saves them in the ATS controller.

Note: Before configuring the nominal values ensure that the product is properly wired, verified and ready for commissioning. It is imperative that the network supply is available and that the wiring to the ATyS t voltage sensing terminals 103 – 106 and 203 – 206 has been done. It is preferable to use the ATyS sensing kit that may be provided as an accessory.

• Press and hold the Red "PROG OK" button for >2s to measure the mains voltage and

Note: The source available LED will flash while the available network is being measured. The READY LED will flash green as soon as settings are measured and until these settings have been saved by pressing the PROG OK button a second time momentarily. (Refer to STEP 4).

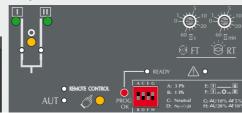




### Saving the configured values

To SAVE the recorded setting configuration press the PROG OK button momentarily: <60ms. Note: The flashing READY LED goes off once the values are saved in the ATS controller. At least one of the source availability LED must be ON.





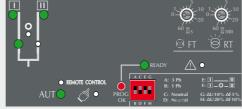


### Putting the ATyS t into Auto Operation

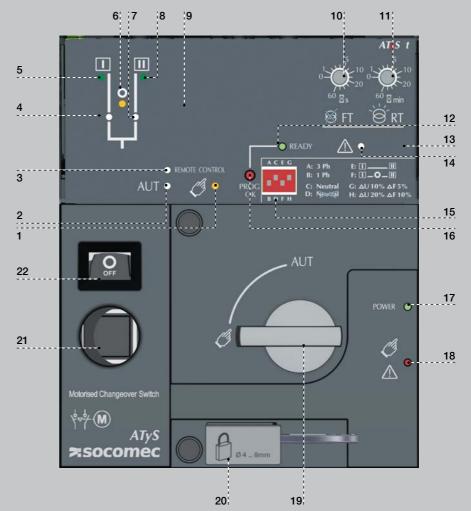
After following Steps 1 to 4, and once ready to put the ATyS t into AUTO operation turn the mode selector switch to Auto.

**Note:** When the product is powered and properly configured, after switching the product from Manual Mode to Auto Mode the READY light should be a steady green light.





WARNING Depending on the state of the ATyS t the ATS automation may change the switch position as soon as the mode selector is switched to AUT. This is a normal operation.



- 1. MANUAL Mode LED indication. (Yellow steady light when in Manual Mode).
- 2. AUTO Mode LED indication Green steady light when in Auto mode with no timers running Green flashing light when in Auto with timers running in the background.
- 3. REMOTE CONTROL Mode LED indication. Yellow steady light when in remote control mode. Remote control mode is achieved with the Auto/Manu selector switched to Auto and terminals 312 closed with terminal 317. Remote control orders are received through closing 314 to 316 with 317.
- 4. Switch 1 LED position indication. (Green when in position 1).
- 5. Source supply I availability LED indication. (Green when supply I voltage is within the
- 6. Zero position LED indication. (Yellow when in position 0).
- 7. Switch 2 LED position indication. (Green when in position 2).
- 8. Source supply II availability LED indication. (Green when supply II voltage is within the
- 9. Sealing screw location 1 for use with sealing cover (Available as an accessory)
- 10. Potentiometer 1: Supply FAILURE Time (FT) Adjustable from 0 to 60 seconds.
- 11. Potentiometer 2: Supply RETURN Time (RT) Adjustable from 0 to 60 minutes.

- 12. READY LED indication Green steady light : Product in AUTO, Watchdog OK, Product Available to
- changeover. Green flashing: Settings displayed not saved or have been changed since last (Press PROG OK button in manual mode to
- save or revert to last saved settings). 13. Sealing screw location 2 for use with the sealing cover.
- 14. FAULT LED indication. (Red steady light in case of an ATS controller internal fault).
- 15. Configuration dip switches: (4 dip switches with 2 positions in each
- 16. PROG OK: Configuration save push button. (ATTN: Active in Manual Mode ONLY). Press briefly to confirm and save all set configuration settings Hold pressed for 2 seconds to set the network supply voltage and frequency by Auto Configuration.
  This is to be followed by pressing briefly to save the set value configured
- 17. Green LED Indication: Power
- 18. Red LED Indication: Product Unavailable / Manual Mode / Fault Condition
- 19. Auto / Manual mode selector switch (Key version available as an option)
- 20. Padlocking facility
- (Up to 3 padlocks of dia. 4 8mm) 21. Emergency manual operation shaft location (Accessible only in manual mode)
- 22. Switch position indication window: I (On switch I) O (Off) II (On switch II).



I FD "Power" Green: ON

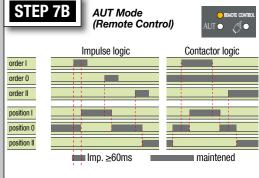
LED Manuel/Default: OFF

not inserted in the product and turn

**AUT Mode** (Automatic Control)

• Ø•





To enable control, close contact 312 with 317. For contactor logic bridge contact 316 with 317. To operate: close the contact corresponding to the desired position. To force the product to 0 position "OFF" bridge contact 313 with 317.



