



ATS115

Micro-processed controller able to manage the automatic switch between two supply sources, both mains and genset(s)

DESCRIPTION

Automatic Transfer Switch controller with 3 phase (RMS) mains voltage and 3 phase (RMS) generator voltage and current monitoring, suitable for operation with **two different power sources**.

ATS115/ATS115Plus is a device suitable to manage the switch in different plants configuration. A or B sources can be set as "mains" or "genset" in any possible combination.

All the parameters can be set directly by the controller's keyboard or, alternatively using the **free software tool (BoardPRG3)**, available from SICES' website.

ATS115, in both versions, has a graphic display that allows a real time check of the switch status, of measures and any occurred alarms.

ATS115 and **ATS115Plus** allows the remote control of the switch by its communication ports.

The plus version, have an extensive input and output capability with optional communication interfaces.

INPUTS - OUTPUTS AND AUXILIARY FUNCTIONS



8 Digital inputs



8 Digital outputs



4 Analogue inputs



AND/OR
Logic control



Event history log



16 Calendars
4 timers



USB port



RS232
Plus Version



RS485
Plus Version



Ethernet connection
Plus Version

- N. 8 Digital inputs.
- N. 4 Analogue inputs, also available as non-isolated digital inputs.
- N. 2 Programmable relay Outputs.
- N. 4 Insulated digital Outputs.
- N. 2 Programmable relays (10A), usually used for the switch management.
- All inputs and Outputs are freely programmable.

MAIN FEATURES

- > True RMS measure for voltages of both sources, currents on loads.
- > Measure of active power and power factor.
- > Measure of frequency for both sources, powers on load.
- > 8 programmable digital inputs (insulated).
- > 8 programmable digital outputs.
- > USB Port and ETHERNET Port (for **ATS115Plus**).
- > Graphic display with single-line diagram representation.
- > Real time clock.
- > Events and data recording.
- > Remote switch commands and remote start and stop commands.
- > Embedded alarm horn.

COMMUNICATION

- ATS115**
- N.1 USB Port to program the controller through PC.

- ATS115Plus**
- N. 1 USB Port.
 - N. 1 Serial port RS232 Modbus RTU.
 - N. 1 Isolated serial port RS485 Modbus RT.
 - N. 1 RJ45 Port Ethernet interface TCP/IP.

- Optional**
- GSM/GPRS/GPS modem (REWIND): SMS in case of warnings and alarms.
 - PSTN modem for data call in case of alarm and warning.
 - Supervisor software for Windows[®].

ATS115 and **ATS115Plus** are multilingual devices.
The selectable languages are, English, Italian, Spanish, French, Russian and Portuguese/Bra.

Source A Voltage: (mains or genset)	L1-N, L2-N, L3-N, L1-L2, L2-L3, L3-L1. True RMS measure. Lx-N max. voltage < 300Vac cat. IV.
Source B Voltage: (mains or genset)	L1-N, L2-N, L3-N, L1-L2, L2-L3, L3-L1. True RMS measure. Lx-N max. voltage < 300Vac cat. IV.
A or B Currents or towards load:	L1, L2, L3, N. True RMS measure. Rated current: /5A and /1A. Overload of measure current: 4 x 5Aac (sinusoidal).
A or B Frequency:	Resolution = 0.1 Hz. Accuracy = $\pm 50\text{ppm}$, $\pm 35\text{ppm}/^\circ\text{C}$ (typical).
Battery Voltage:	Resolution = 0.1V.

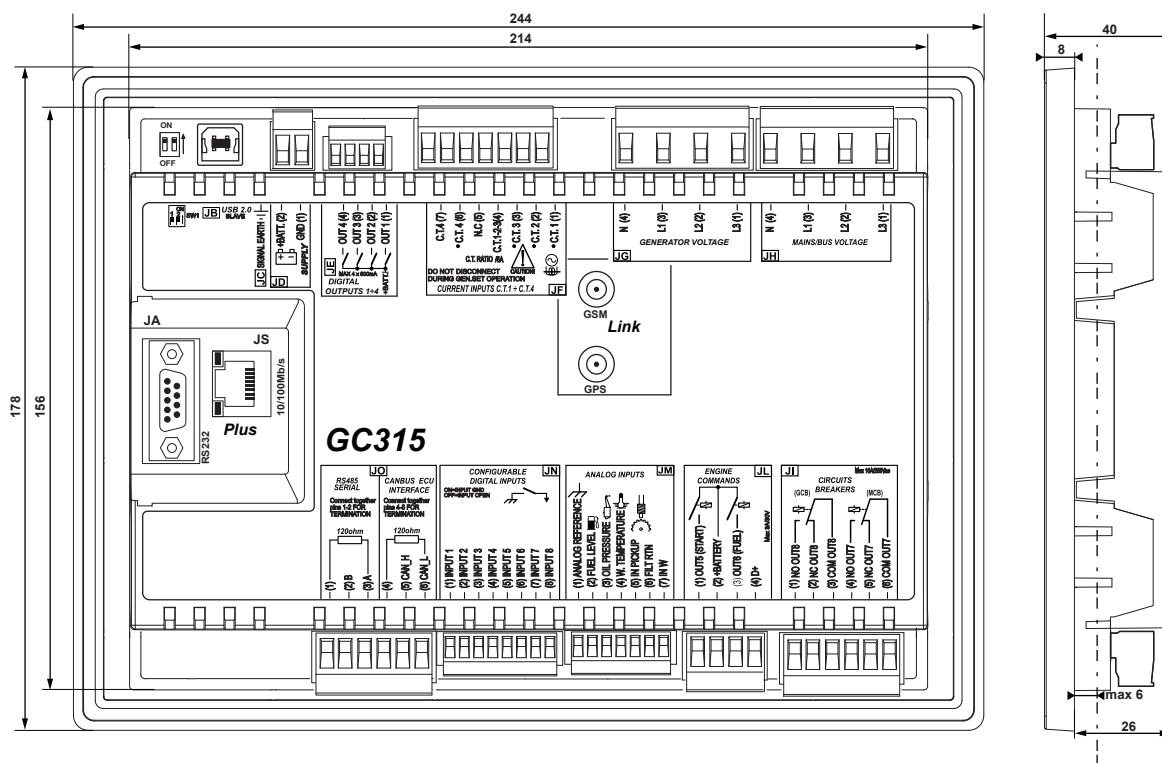
PROTECTIONS

Status and Signals	<ul style="list-style-type: none"> • Source A live (Mains or Genset). • Source B live (Mains or Genset). • Source A circuit breaker closed. • Source B circuit breaker closed. • Source A or B Start/Stop. • Remote Start. • Battery failure (Max/Min Voltage). • Max. controller temperature. • Emergency stop. • Clock set up failure.
Protections	<ul style="list-style-type: none"> • Genset "X" not stopped. • Genset "X" out of threshold. • Source A or B operation conditions not reached. • Source A or B wrong phase sequence. • Source A or B failure. • Source A or B circuit breaker not open. • Source A or B circuit breaker not closed.

A set of high efficiency LED is used for signaling the statuses of the genset and of potential alarms occurred. Secondary alarms are represented by their corresponding display code.

TECHNICAL DATA

- > Supply voltage: 7...32 Vdc.
- > Power consumption: typically, less than 2W (Auto mode, Standby, AMF active, LCD Lamp Saving active).
- > Genset rated frequency 50Hz or 60Hz.
- > LCD: transfective with LED backlight.
- > Operating temperature: -25 °C to 60 °C.
- > Protection degree: IP65 (gasket included).
- > Weight: 600g - 650g (*Plus* version).
- > Overall dimension: 244 (W) x 178 (H) x 40 (D).
- > Panel cut-out: 218 x 159 (W x H).
- > Graphic display dimensions: 70 x 38 mm - 128 x 64 pixel.
- > EMC: compliant with EN61326-1.
- > Safety: built in compliance with EN61010-1.



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