ATL 800 - Some possible configurations

- 3 power sources automatic transfer switch controller
- 2 power sources automatic transfer switch controller
- ATL series: ATL 600 - ATL 601 - ATL 610 - ATL 800

ATL 900 - Some possible configurations

- 2 power sources automatic transfer switch controllers
- ATL series: ATL 900

ATL 500

- 3 phases
- 3 single phase power sources
- 3 changeover devices
- 2 tie-breakers

- Control of under and over-voltage, phase sequence, phase loss, asymmetry, minimum and maximum frequency, time delay
- Programmable maintenance alarms
- Suitable for contactors and motorised changeover switches

ATL 100

- Single phase
- 2 power sources automatic

- Keyboard on front to select the operating mode (AUT or MAN)
- Synoptic with LEDs for a simple and clear visualization of the ATS system
- Programmable by the user

ATL series

- ATL 600
- ATL 601
- ATL 610
- ATL 800

ATL 600 - ATL 601 - ATL 610 - ATL 800

- 3 power sources automatic transfer switch controller
- 2 power sources automatic transfer switch controller

ATL series

- ATL 600
- ATL 601
- ATL 610
- ATL 800

ATL 600

- 3 phases
- 2 single phase power sources
- 1 changeover device

- Control of under and over-voltage, phase sequence, phase loss, asymmetry, minimum and maximum frequency, time delay
- Programmable maintenance alarms
- Suitable for contactors and motorised changeover switches

ATL 601

- 3 phases
- 2 power sources automatic

- Keyboard on front to select the operating mode (AUT or MAN)
- Synoptic with LEDs for a simple and clear visualization of the ATS system
- Programmable by the user

ATL 610

- 3 phases
- 2 power sources automatic

- Keyboard on front to select the operating mode (AUT or MAN)
- Synoptic with LEDs for a simple and clear visualization of the ATS system
- Programmable by the user

ATL 800

- 3 phases
- 3 power sources automatic

- Keyboard on front to select the operating mode (AUT or MAN)
- Synoptic with LEDs for a simple and clear visualization of the ATS system
- Programmable by the user

ATL 900

- 2 power sources automatic

- Keyboard on front to select the operating mode (AUT or MAN)
- Synoptic with LEDs for a simple and clear visualization of the ATS system
- Programmable by the user

Certifications and compliance

- Certifications obtained: EAC, RCM.
- Certifications obtained: EAC.
- Certifications obtained: EAC, RCM.
- Certifications obtained: EAC, RCM.
- Certifications obtained: EAC.

Expandability

- With EXP... modules (3 max.)
- With EXP... modules (2 max.)

Software

- Compatible software
- Built-in NFC technology
- Built-in PLC technology
- Closed transition available

Operational characteristics

- Power sources can be independently defined as utility or non-utility, and the ATS controller automatically switches to the non-utility source if the utility source fails.
- Programmable by the user
- Programmable relay outputs
- Programmable digital inputs
- Programmable maintenance alarms
- Programmable relays for line selection
- Programmable relays for status indication
- Programmable relays for alarm properties
- Programmable relays for time delay

- Expandability with EXP... modules (e.g. Ethernet, extra I/Os).
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Certifications and compliance

- IEC/EN 60947-6-1, UL508, CSA C22.2 n°14.
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3 power sources automatic transfer switch controller

- ATL 800
- ATL 900

ATL series

- ATL 600
- ATL 601
- ATL 610
- ATL 800

ATL 600

- 3 phases
- 3 power sources automatic

- Keyboard on front to select the operating mode (AUT or MAN)
- Synoptic with LEDs for a simple and clear visualization of the ATS system
- Programmable by the user

ATL 601

- 3 phases
- 2 power sources automatic

- Keyboard on front to select the operating mode (AUT or MAN)
- Synoptic with LEDs for a simple and clear visualization of the ATS system
- Programmable by the user

ATL 610

- 3 phases
- 2 power sources automatic

- Keyboard on front to select the operating mode (AUT or MAN)
- Synoptic with LEDs for a simple and clear visualization of the ATS system
- Programmable by the user

ATL 800

- 3 phases
- 3 power sources automatic

- Keyboard on front to select the operating mode (AUT or MAN)
- Synoptic with LEDs for a simple and clear visualization of the ATS system
- Programmable by the user

ATL 900

- 2 power sources automatic

- Keyboard on front to select the operating mode (AUT or MAN)
- Synoptic with LEDs for a simple and clear visualization of the ATS system
- Programmable by the user

Certifications and compliance

- IEC/EN 60947-6-1, UL508, CSA C22.2 n°14.
- IEC/EN 60947-6-1, UL508, CSA C22.2 n°14.
- IEC/EN 60947-6-1, UL508, CSA C22.2 n°14.
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Expandability

- With EXP... modules (3 max.)
- With EXP... modules (2 max.)

Software

- Compatible software
- Built-in NFC technology
- Built-in PLC technology
- Closed transition available

Operational characteristics

- Power sources can be independently defined as utility or non-utility, and the ATS controller automatically switches to the non-utility source if the utility source fails.
- Programmable by the user
- Programmable relay outputs
- Programmable digital inputs
- Programmable maintenance alarms
- Programmable relays for line selection
- Programmable relays for status indication
- Programmable relays for alarm properties
- Programmable relays for time delay

- Expandability with EXP... modules (e.g. Ethernet, extra I/Os).
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- IEC/EN 60947-6-1, UL508, CSA C22.2 n°14.
3 power sources automatic transfer switch controller

ATL 800 is an ATS controller with high performance. Specific functions are available for the control of three power sources and three changeover devices and two tie-breakers.

It is possible to use the default logics for the changeover strategy or personalize them with three power sources and three changeover devices and two tie-breakers.

ATL 900

Certifications obtained:

- IEC/EN 60947-6-1
- IEC/EN 61010-2-030
- IEC/EN 61000-6-2
- IEC/EN 61010-1
- EAC
- RCM

Compatible software

- RS485 port - With EXP10 12 Built-in
- Built-in PLC technology for ATL 800 only
- Built-in NFC technology for ATL 800 only

Real time clock with backup energy

- Built-in NFC technology for ATL 800 only

Operational characteristics ATL 900

- Type of input: Negative
- Frequency range: 45...65Hz
- Programmable digital inputs: 12
- Programmable relay outputs: 3 with 1 normally open contact each (NO - SPST) rated 12A 250VAC

ATL 100

Certifications obtained:

- IEC/EN 60947-6-1
- IEC/EN 61010-2-030
- IEC/EN 61000-6-2
- EAC

Compatible software

- RS485 port - With EXP10 12 Built-in

Real time clock with backup energy

- Built-in NFC technology for ATL 800 only

Operational characteristics ATL 100

- Type of input: Negative
- Frequency range: 45...65Hz
- Programmable digital inputs: 12
- Programmable relay outputs: 3 with 1 normally open contact each (NO - SPST) rated 8A 250VAC

The automatic transfer switch controllers can supervise and manage the changeover between 2 three-phase power sources. The voltage and frequency measurement inputs are shown on the front panel and the LEDs on the front panel provide a clear indication about the power source status.
### ATL 900 - Some possible configurations

- Built-in PLC technology
- Programmable digital inputs (12)
- Programmable relay outputs (7)
- Programmable maintenance alarms
- Dual AC/DC power supply
- Remote access with ASCII or APP

### ATL 800 - Some possible configurations

- Built-in PLC technology
- Programmable digital inputs (12)
- Programmable relay outputs (7)
- Programmable maintenance alarms
- Dual AC/DC power supply
- Remote access with ASCII or APP

### ATL 600 - Some possible configurations

- Built-in PLC technology
- Programmable digital inputs (8)
- Programmable relay outputs (7)
- Programmable maintenance alarms
- Dual AC/DC power supply
- Remote access with ASCII or APP

### ATL 610 - Some possible configurations

- Built-in PLC technology
- Programmable digital inputs (8)
- Programmable relay outputs (7)
- Programmable maintenance alarms
- Dual AC/DC power supply
- Remote access with ASCII or APP

### ATL 800 - Some possible configurations

- Built-in PLC technology
- Programmable digital inputs (12)
- Programmable relay outputs (7)
- Programmable maintenance alarms
- Dual AC/DC power supply
- Remote access with ASCII or APP

### ATL 600 - Some possible configurations

- Built-in PLC technology
- Programmable digital inputs (8)
- Programmable relay outputs (7)
- Programmable maintenance alarms
- Dual AC/DC power supply
- Remote access with ASCII or APP
3 power sources automatic transfer switch controller

ATL 800 is an ATS control with high performance. Specific functions are available for the control of three power sources and three changeover devices and two tie-breakers. If possible, it is possible to use the small tie-breakers for the changeover strategy or parametrize them with the integrated PLC. ATL 900 has four current inputs, with this feature, it can measure the new logics on the control of the power sources.

- Programmable digital inputs 6 6 8
- Programmable relay outputs 3 with 1 normally open contact each (NO - SPST) rated 12A 250VAC
- Measurement range 50-720VAC L-L
- Voltage measurement inputs
- Current inputs 4 inputs (5A or 1A)
- Voltage tripping thresholds min / max:
  - Voltage measurement inputs: 
    - Input voltage range: 80-300VAC
    - Rated frequency: 50/60Hz
    - Operative range: 90...300VAC L-N /
  - Frequency: 50/60Hz
  - Rated supply voltage: 110/230VAC

**Operational characteristics ATL 900**

- Type of input  Negative
- Voltage measurement inputs
- Current inputs 4 inputs (5A or 1A)
- Voltage tripping thresholds min / max:
  - Voltage measurement inputs:
    - Input voltage range: 80-300VAC
    - Rated frequency: 50/60Hz
    - Operative range: 90...300VAC L-N /
  - Frequency: 50/60Hz
  - Rated supply voltage: 110/230VAC

Certifications obtained:
- EAC, RCM.

Certifications and compliance

Automatic transfer switch controllers ATL SERIES

A transfer switch controller with high performance. It is suitable for use in three-phase, single-phase and two-phase systems. It monitors two three-phase voltage inputs coming from two sources and connects to the output the phase that is within the limits. It can control contactors or motorized changeover switches to perform the transfer between the lines.

**Operational characteristics ATL 610**

- 2 single phase voltage inputs
- Voltage measurement inputs:
  - Input voltage range: 80-300VAC
  - Rated frequency: 50/60Hz
  - Degree of protection: IP40 on front, IP65
- RPM 0.5 seconds
- Fixed delay time between line switching:
  - Voltage tripping thresholds min / max:
    - Voltage measurement inputs:
      - Input voltage range: 80-300VAC
      - Rated frequency: 50/60Hz
      - Operative range: 90...300VAC L-N /
    - Frequency: 50/60Hz
    - Rated supply voltage: 110/230VAC

Certifications obtained:
- EAC.

Certifications and compliance
- IEC/EN 61010-1, IEC/EN 60947-1, IEC/EN 61000-6-2, IEC/EN 61000-6-4, IEC/EN 60947-6-1.

Automatic transfer switch controllers ATL SERIES

A transfer switch controller with high performance. It is suitable for use in three-phase, single-phase and two-phase systems. It monitors two three-phase voltage inputs coming from two sources and connects to the output the phase that is within the limits. It can control contactors or motorized changeover switches to perform the transfer between the lines.

**Operational characteristics ATL 800**

- 3 power sources automatic transfer switch controller
- Control of power to define new logics on the control of the power sources.
- Programmable relay outputs 3 with 1 normally open contact each (NO - SPST) rated 12A 250VAC
- Measurement range 50-720VAC L-L
- Voltage measurement inputs
- Current inputs 4 inputs (5A or 1A)
- Voltage tripping thresholds min / max:
  - Voltage measurement inputs:
    - Input voltage range: 80-300VAC
    - Rated frequency: 50/60Hz
    - Operative range: 90...300VAC L-N /
  - Frequency: 50/60Hz
  - Rated supply voltage: 110/230VAC

Certifications obtained:
- EAC, RCM.

Certifications and compliance

Automatic transfer switch controllers ATL SERIES

A transfer switch controller with high performance. It is suitable for use in three-phase, single-phase and two-phase systems. It monitors two three-phase voltage inputs coming from two sources and connects to the output the phase that is within the limits. It can control contactors or motorized changeover switches to perform the transfer between the lines.

**Operational characteristics ATL 800**

- 3 power sources automatic transfer switch controller
- Control of power to define new logics on the control of the power sources.
- Programmable relay outputs 3 with 1 normally open contact each (NO - SPST) rated 12A 250VAC
- Measurement range 50-720VAC L-L
- Voltage measurement inputs
- Current inputs 4 inputs (5A or 1A)
- Voltage tripping thresholds min / max:
  - Voltage measurement inputs:
    - Input voltage range: 80-300VAC
    - Rated frequency: 50/60Hz
    - Operative range: 90...300VAC L-N /
  - Frequency: 50/60Hz
  - Rated supply voltage: 110/230VAC

Certifications obtained:
- EAC, RCM.

Certifications and compliance
In the ATLs, there are two counters used for maintenance purposes; the first one by the ATL when installed.

The module is automatically recognised:

- GPRS/GSM modem (for ATL 800 and ATL 900 only).
- USB, RS232, RS485, Ethernet and Profibus communication
- Programmable counters

About enabled limits and counters, the user can find the relative pages, scrolling
- for ATL 800 and ATL 900, 250 for ATL 800 and ATL 900, that provide useful information
- about the history and know the performance of the system controlled.

The controllers record statistics data available for the user to understand how the
- system works. An internal cyclic memory records up to 100 events for ATL 600,
- 100 for ATL 601
- 50 for ATL 602
- 250 for ATL 800 and ATL 900, that provide useful information
- about the history and know the performance of the system controlled.

The configuration of the ATL in different installations can have many variants, for
- example the configuration can be saved in the device and loaded on the same device again (backup function) or to a different one of the
- same family.

The configuration can be saved on USB, on a home PC through an Ethernet connection, for programming,
- via smart devices (e.g. tablets and mobile phones).

About enabled limits and counters, the user can find the relative pages, scrolling
- about the history and know the performance of the system controlled.

Dual power supply module

ATL, GPRS synchronisation of the controller can operate in dual power supply at both inputs selecting the most
- profitable of the two for the output. It is suitable for supplying motorised circuit breakers and changeover switches
- because the number of components and time of installation safety

Product expander EXP10 11 Opto-isolated RS232 interface
- Inputs: 2 digital inputs, 2 opto-isolated digital inputs and 2
- Outputs: 2 relay outputs rated 5A 250VAC

Product expander EXP10 08 2 opto-isolated digital inputs and 2
- Outputs: 2 relay outputs rated 5A 250VAC

Product expander EXP10 04 2 opto-isolated analog inputs
- Outputs: 2 relay outputs rated 5A 250VAC

Product expander EXP10 02 2 digital inputs and 2 static outputs,
- Inputs: 2 digital inputs, 2 static outputs

Expander modules for

- ATL 600 ATL 500 ATL 601 ATL 800 ATL 900

- ATL 500 Automatic transfer switch controller with synoptic
- for 2 power sources, 144x144mm, self-seeking power supply 110-240VAC

- ATL 601 Automatic transfer switch controller with LCD display and optical port
- for 2 power sources, 144x144mm, power supply 110-240VAC

- ATL 602 Automatic transfer switch controller with LCD display and optical port
- for 2 power sources, 144x144mm, power supply 110-240VAC

- ATL 800 Automatic transfer switch controller with LCD display and optical port
- for 2 power sources and 1 tie-breaker, 180x240mm, power supply 110-240VAC

- ATL 900 Automatic transfer switch controller with LCD display and optical port
- for 2 power sources, 144x144mm, power supply 110-240VAC

- ATL DPS1 For measurement and control of voltages present at supply inputs to power motorised circuit breakers/changeover switches
- with 1 single phase L+N output
- 2 single phase L+N inputs
- 4 status indication LEDs for voltage of each line
- – Mounting: on 35mm DIN rail (IEC/EN 60715)
- – Fixed delay time between line switching: 0.5s
- – Modular housing, 3 modules
- – 12/24/48VDC, expandable with EXP... expansion modules, built-in RS485, 3ph+N current inputs
- – 12/24/48VDC, expandable with EXP... expansion modules, built-in RS485, 3ph+N current inputs

Certifications obtained: cULus, EAC, RCM.

Certifications and compliance

- IEC/EN 61010-1
- IEC/EN 61800-5-1
- IEC/EN 61800-3
- IEC/EN 61851-1
- EN 50121-3-3
- EN 50121-3-1

Safety and environment

- CE mark
- EN 50121-3-3
- EN 50121-3-1
- EN 50121-3-1

Expander description

- Expansion modules for ATL 600 - ATL 900
- EXP10 11 Opto-isolated RS232 interface
- EXP10 08 2 opto-isolated digital inputs and 2
- EXP10 04 2 opto-isolated analog inputs
- EXP10 02 2 digital inputs and 2 static outputs,
The new interface allows the user to clearly see in a simple way:

For ATL 600, ATL 601 and ATL 610, the texts are available in 5 different languages:

- Statistical data

For ATL 600, ATL 601 and ATL 605, the texts are available in 5 different languages:

- Operations

Maintenance counters

- Maintenance counters

Inputs, outputs, internal variables, 

- Inputs, outputs, internal variables, 

Statistics and events

- Statistics and events

Expansibility

- Expandability

Dual AC/DC power supply for ATL 600 - ATL 610

- Dual AC/DC power supply

Programmable PLC logic for ATL 800 - ATL 900

- Programmable PLC

APP

- APP

化工

App

HOW TO ORDER

Automatic transfer

- Automatic transfer

Dual power supply module

- Dual power supply

GRAPHIC L.C.D. display and

- LCD display

USB and Wi-Fi dongle

- WiFi

Optical port

- Optical port

Real time clock for

- Real time clock

4 current inputs

- Current inputs

App

- App

App

Dual power supply module

- Dual power supply

ATL 900  Automatic transfer switch controller with LCD display and optical port for 3 power sources and 2 tie-breakers, 180x240mm, power supply 110-240 VAC and

ATL 800  Automatic transfer switch controller with LCD display and optical port for 2 power sources, 144x144mm, power supply 110-240VAC and 12/24VDC,

ATL 601  Automatic transfer switch controller with LCD display and optical port for 2 power sources, 144x144mm, power supply 12/24VDC

ATL 600  Automatic transfer switch controller with LCD display and optical port for 2 power sources, 144x144mm, power supply 110-240VAC
The ATL 600, ATL 601, ATL 610 and ATL 800 have a 128x80 pixel resolution display, showing the current status and values of the monitored parameters. The display is programmed in English, Italian, French, Spanish and German; additional 3 languages are available for configuration.

- **Pop-up windows for alarms.** When an alarm occurs, a pop-up window is displayed on the screen to alert the operator.
- **Control thresholds.** The controller can be programmed to trigger an alarm when certain conditions are met.
- **4 current inputs.** The controller is equipped with 4 current inputs, each programmed to monitor different variables.
- **Real time clock for ATL 600, ATL 601, ATL 600 and ATL 800.** The controller has a real-time clock function, allowing to synchronize events and alarms.
- **Archiving event list.** All events and alarms are recorded in a list, which can be saved and printed for documentation.

**Graphic LCD display and UI in 5 or 8 languages.** The display can be configured in different interfaces in English, Italian, French, Spanish and German; additional 3 languages are available for configuration. The UI is designed to be user-friendly and intuitive.

**Fast and easy programming.** The controller is designed for easy programming, allowing to quickly configure the system to meet the specific needs of the installation.

**Maintenance counters.** The controller is equipped with maintenance counters, allowing to keep track of the maintenance operations.

**Inputs, outputs, internal variables, and status.** The controller is equipped with a variety of inputs and outputs, allowing to monitor and control different variables.

**Built-in power supply.** The controller is equipped with a built-in power supply, allowing to work without external power source.

**XLite configuration and remote control software.** The software is downloadable from Google Play Store or Apple Store, allowing to configure and control the controller remotely.

**Careful tuning.** The controller is designed for careful tuning, allowing to optimize the performance of the system.

**App.** The controller supports the use of an app, allowing to control the system from a smartphone or tablet.

**Closed transition for ATL 800 - ATL 900.** The controller supports closed transition strategy, allowing to switch between power sources smoothly.

**NFC for ATL 500 - ATL 800 - ATL 900.** The controller supports NFC technology, allowing to use it as a keyless entry system.

**Xpress software.** The software is downloadable from the website www.LovatoElectric.com, allowing to configure the controller remotely.

**Power supply solutions.** The controller supports a variety of power supply solutions, including dual power supply, automatic transfer switch, and PLC logic capability.

**Dual power supply module.** The controller is equipped with a dual power supply module, allowing to switch between power sources automatically.

**Assignment of input/output values.** The controller supports the assignment of input/output values, allowing to customize the behavior of the system.

**Inputs and output values.** The controller supports a variety of input/output values, allowing to monitor and control different variables.

**Time/Date stamp.** The controller is equipped with a time/date stamp function, allowing to record the time and date of events.

**Gluing the controller.** The controller is designed for easy gluing, allowing to mount it on any flat surface.

**Active supervision and energy management software.** The software is downloadable from the website www.LovatoElectric.com, allowing to supervise and manage the energy of the system.

**Xpress and configuration software.** The software is downloadable from the website www.LovatoElectric.com, allowing to configure the controller remotely.

**Expansion modules for ATL 500 - ATL 800.** The controller supports expansion modules, allowing to extend its functionality.

**Graphical symbols.** The controller is equipped with graphical symbols, allowing to easily understand the status and values of the monitored parameters.

**Immediate performance.** The controller is designed for immediate performance, allowing to quickly monitor and control the system.

**Convenience of working on the front.** The controller is designed for convenience of working on the front, allowing to easily access and configure the system.

**Electrical safety (no electrical connection).** The controller is designed for electrical safety, allowing to work without any electrical connection.

**Advanced features.** The controller supports a variety of advanced features, including PLC logic capability, remote control, and energy management.

**Input and output functions.** The controller supports a variety of input/output functions, allowing to monitor and control different variables.

**Stability and performance.** The controller is designed for stability and performance, allowing to work under different conditions.

**Plug-ins and accessories.** The controller supports plug-ins and accessories, allowing to extend its functionality.

**How to order.** The controller is available in different models, allowing to select the most suitable for the specific needs of the installation.