

User Manual

ATS358S022

Monitored Automatic Transfer Switch PDU



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Version: ATS358S022_2023V1.0


Preface

Read this user manual carefully before using the product. Pictures shown in this manual are for reference only. Different models and specifications are subject to real product.

This manual is only for operation instruction of ATS358S022, please contact the local distributor for maintenance assistance. The functions described in this version were updated till January, 2023. In the constant effort to improve the product, we reserve the right to make functions or parameters changes without notice or obligation. Please refer to the dealers for the latest details.

All product function is valid till 2023-01.

Trademarks

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SAFETY PRECAUTIONS

ATS358S022 can be installed only by qualified personal in line with this operating manual. The manufacturer does not take responsibility in case of using incompatible with its purpose and this operating manual. It may cause electric shock and/or damage of ATS358S022.

ATS358S022 consists of elements that cannot be fixed by the user. All repairs must be done in manufacturer's authorized service. Power sockets, RJ45 port, sensor port and cable must be checked before usage if there are no mechanical damages.

Usage of damaged power sockets, RJ45 ports, sensor ports and cables is strictly prohibited.

ATS358S022 can be connected only to 230VAC (50/60 Hz) sockets with attested earthing contacts.

ATS358S022 is designed for indoor usage and cannot be installed outdoors because of the humidity and/or too high temperature.

Manufacturer's certificates concern ATS358S022s with no modifications made without manufacturer's authorization.

These safety requirements refer also to devices connected to the ATS358S022 and devices which this ATS/ PDU is connected to.

ATS358S022s are not toys and should be used and kept in places unreachable for children.

Material used during production of packages should be recycled.

In case of any ambiguities or questions concerning this operating manual, ATS/ PDU installation or its usage, please contact immediately with manufacturer's service.

Table of Contents

1. ATS358S022 characteristics	1
1.1 Features	2
1.2 Package List	3
2. Panel Description.....	4
2.1 View of server module panel	4
2.2 View of automatic transfer switch panel.....	5
2.3 Status of LED diodes	5
2.4 Description of LED signaling.....	6
3. System Connection.....	7
3.1 Usage Precaution	7
4. Use Cases	7
5. GUI Control / Monitoring setup	8
5.1 Log-in screen.....	8
5.1.1 Login as Admin	8
5.1.2 Login as User	8
5.2 GUI Overview	9
5.2.1 Menu Admin view	9
5.2.2 Menu User view.....	10
5.3 Monitoring Overview Screen.....	11
5.3.1 Description of monitoring screen section.....	12
5.3.1.1. Current section	12
5.3.1.2. Power sources status section	13
5.3.2 Temperature monitoring section	14
5.3.3 Visualization of diodes actual state.....	15
5.3.3.1. Example of signalization in case of standard functioning of the strip, all parameters are correct.	15
5.3.3.2. Example of signalization in case of lack of power supply in primary power source.	16
5.3.3.3. Example of signalization in case of lack of the power supply in secondary power source, receivers are supplied by primary power source	17

5.3.3.4. Example of signalization when there is a power in primary power source again after the break (when the voltage is stable within 10 seconds)	18
5.4 Monitoring Settings / Monitoring Configuration Screen	19
5.4.1 Current section	19
5.4.2 Phase control section	20
5.4.3 Temperature section	20
5.5 System Functions Setup / PDU Configuration Screen	21
5.5.1 Configuration of PDU location and network settings	21
5.5.2 Configuration of the temperature sensor	22
5.5.3 Passwords setup	22
5.5.4 Timeout and Auto-refresh setup	22
5.6 Alert Configuration	23
5.6.1 SMTP setup	23
5.6.2 Syslog setup	24
5.6.3 SNMP setup	24
5.7 System clock setup / Date and Time screen	25
5.8 Logbook/ System Log screen	26
5.9 Restart and Logout	26
5.9.1 Restart	26
5.9.2 Logout	26
6. Specification	27
6.1 Technical data	27
6.2 Reset to Default settings/ Factory Reset	28
7. Troubleshooting & Maintenance	28
8. Customer Service	29

1. ATS358S022 characteristics

1-phase monitored automatic transfer switch is a modern strip that ensures needful redundancy. It can be applied in server rooms, data centers, telecommunication and many other places where electrical devices should be supplied uninterruptedly and where monitoring of power supply is necessary. Redundancy improves reliability and provides permanent power supply to appliances.

ATS358S022 has two cables, white and black, that are used to connection of two different power sources. First power source, the primary one, is connected to the white cable and the second, secondary one, is connected to the black cable.

Strip contains automatic transfer switch module, AC ammeter with LED display, power sockets (230VAC) that allow to connect the devices to power supply and server module with RJ45 socket to connect with TCP/IP network and RJ9 socket to connect the temperature sensor (optionally).

Automatic transfer switch module contains three LED diodes: green, yellow and red. These diodes indicate the status of strip. Built-in LED diodes in RJ45 socket allow to control the status of connection with Ethernet network. Strip is also equipped in two buttons that provide the possibility of manual reset in case of „freezing” and turning back to the default settings.

Software used in these strips allows to handle protocols like: TCP/IP, SNMP, Syslog, http. All important events from system log are saved in EEPROM internal memory. System log is complemented with „timestamp” from external real time clock supplied with batteries. WWW interface of the strip has two levels of login- as admin and as a user. It is a kind of protection against unauthorized access to modifications of system functions.

Current and temperature functions have some defined limits. Crossing these limits causes alarm in the system which is indicated by additional information sent by Mail, SNMP, Syslog. This event is noted in the system log.

These strips are dedicated to mounting in 19” server racks- 1U.

There are mounting brackets for installation in 4 orientations and screws for assembling brackets to the strips in set.

1.1 Features

- Automatic switchover from power source A to power source B if the primary power supply fails
- Automatic switchover - with a 10-second time delay - from power source B to power source A when the primary power supply is stable again
- If the secondary power supply (power source B) fails within the "10 second time delay", there is an immediate switchover to power source A
- Ultra-fast switching between the power sources:
- Transfer time from power source A to power source B: 15ms
- Transfer time from power source B to power source A: 12ms
- AC ammeter with 3-digit LED display
- Measuring range 0.1A ~ 16A
- Measuring accuracy $\pm 2.5\%$
- Built-in web server with monitoring of circuits, current load and temperature
- Network interface: RJ45 (Ethernet 10/ 100BaseT)
- RJ9 interface for optional temperature sensor
- Protocols: TCP/IP, HTTP, SNMP, SMTP, Syslog, DHCP
- Time-delayed switchover when returning to the primary power supply:
- Switchover from power source B to power source A takes place with a delay time of 10 seconds.


Why is the return to the primary power source delayed?

The time-delayed switching from the secondary power supply back to the primary power source is an extremely useful feature of this ATS-PDU.

If the ATS358S022 did not have this feature and there was a loose contact at power source A, the automatic transfer switch would switch to the primary power supply continuously, i.e. as soon as power is applied to source A (even if only briefly). Due to the loose contact, however, power source A would immediately fail again and the ATS would switch to power source B. This would lead to an extreme load on the installed electronic components and significantly shorten the service life of the automatic transfer switch.

1.2 Package List

- 1x ATS358S022: Automatic transfer switch with ammeter & web server and
2x Schuko outlets (German standard, 45° rotated)
for loads up to 16A
- 2x Rack Mounting Brackets and screws for installation in 4 orientations
(separate from ATS358S022)

 **Note:** Please contact your dealer immediately if any damage or defect in the components is found.

2. Panel Description

2.1 View of server module panel

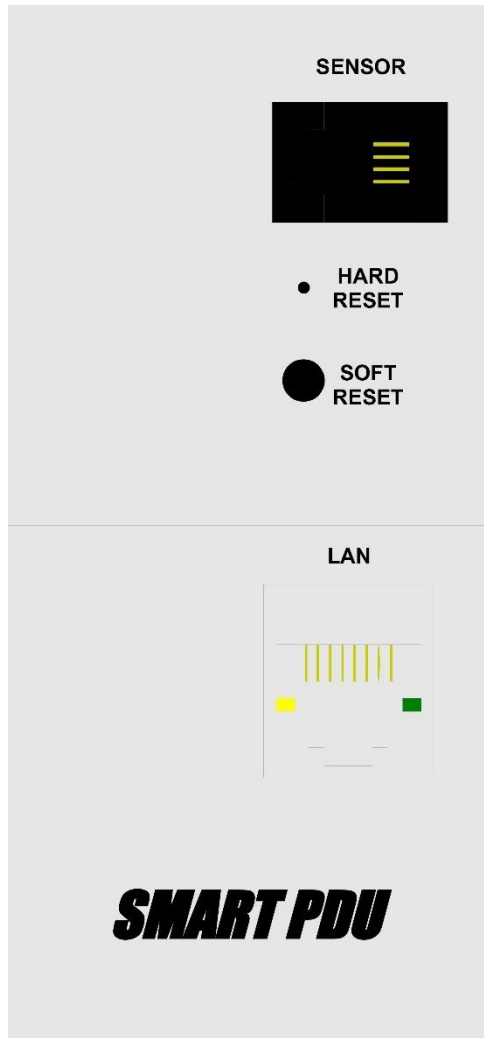


Figure 2-1 View of server module panel ATS358S022

2.2 View of automatic transfer switch panel

Green and yellow diodes indicate the power source that supplies the sockets (receivers).

Red diode indicates the damage, no current in one of the power sources.

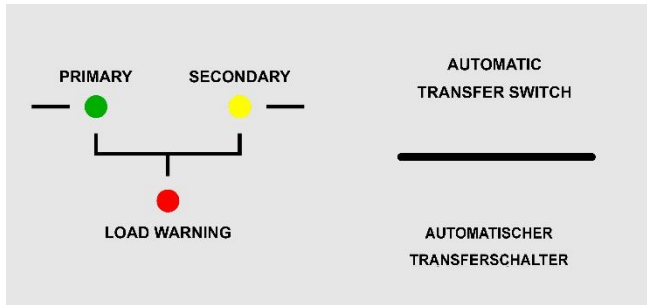


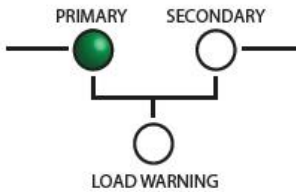
Figure 2-2 View of automatic transfer switch panel ATS358S022

2.3 Status of LED diodes

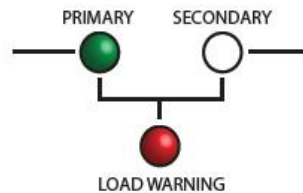
Green	0,5 sec. ON / 0,5 sec. OFF	normal functioning status
Yellow	one short blink per about 60 sec.	normal functioning status
Yellow	one long-lasting blink and two short ones	FLASH memory breakdown
Yellow/ Green	LED diodes blink shortly in turns	BIOS module breakdown

If the PDU is connected to TCP/IP network properly, both LED diodes light more intensively.

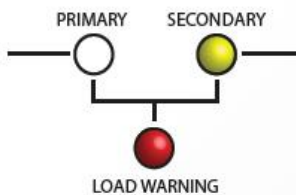
2.4 Description of LED signaling



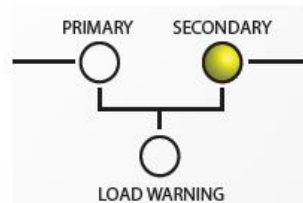
only green LED lights,
basic power source works
second source is available



green and red LEDs lights,
basic power source works
second source is not available



yellow and red LEDs lights,
basic power is not available
second source works



only green LED lights,
basic power is available
second source works
after 10s status will change
automatically to:
basic power source works
second source is available
(and only green LED lights)

3. System Connection

3.1 Usage Precaution

- Make sure all components and accessories included before installation.
- System should be installed in a clean environment with proper temperature and humidity.
- All of the power switches, plugs, sockets, and power cords should be insulated and safe.

4. Use Cases

Automatic transfer switches significantly increase the availability of electrical systems. Transfer switches are supplied by 2 voltage sources. If the primary voltage source fails, the transfer switch automatically switches to the second voltage source without affecting the connected devices/consumers.

The use of automatic transfer switches is therefore always recommended when the availability of electrical systems and IT environments must be ensured.

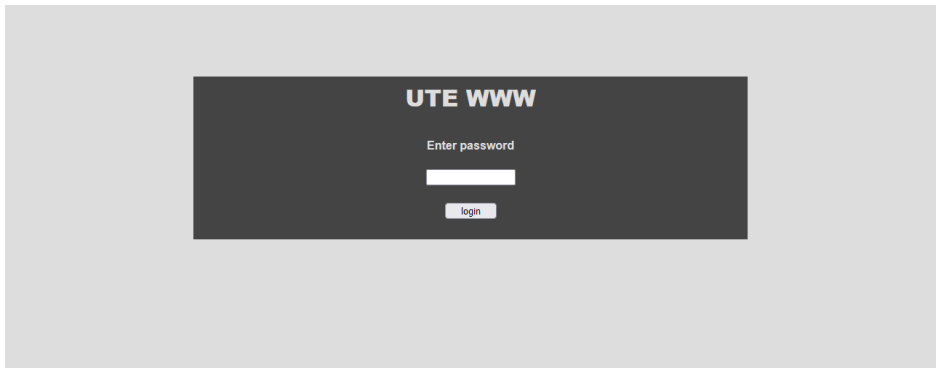
5. GUI Control / Monitoring setup

The Monitored Automatic Transfer Switch PDU ATS258S022 can be controlled via TCP/IP. The default IP settings are:

IP Address: 192.168.0.2
Subnet Mask: 255.255.255.0
Gateway: 192.168.0.1

Type **192.168.0.2** in your internet browser, it will enter the below log-in webpage.

5.1 Log-in screen



5.1.1 Login as Admin

Standard administrator's password is 'admin'

Please type the password, and then click **LOGIN** to enter the 'Monitoring' screen view for Admin.

Admin password changing is described in section 5.5.3.

5.1.2 Login as User

User entitled just to preview does not have a password in standard version.

Please click **LOGIN** to enter the 'Monitoring' screen view for User.

If you had set a user password as described in section 5.5.3, then please type the password, and then click **LOGIN** to enter the 'Monitoring' screen view for User.

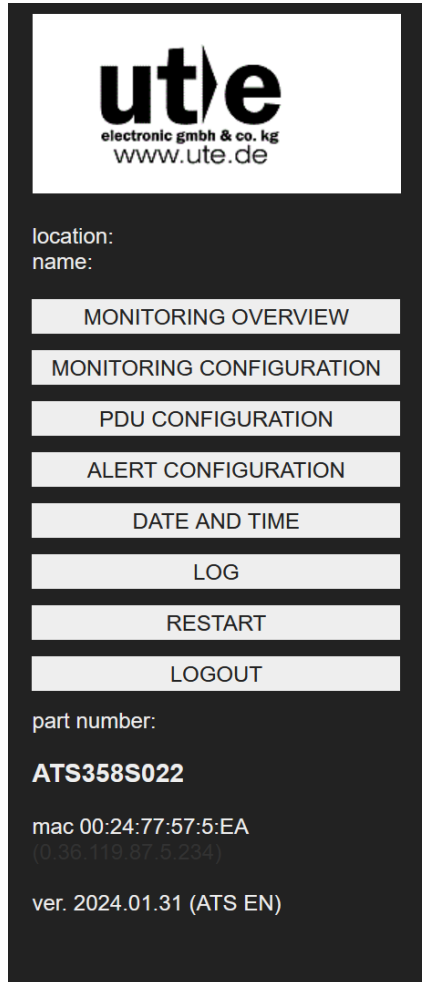
User password setting and changing is described in section 5.5.3.

ATS358S022: Monitored Automatic Transfer Switch PDU

5.2 GUI Overview

5.2.1 Menu Admin view

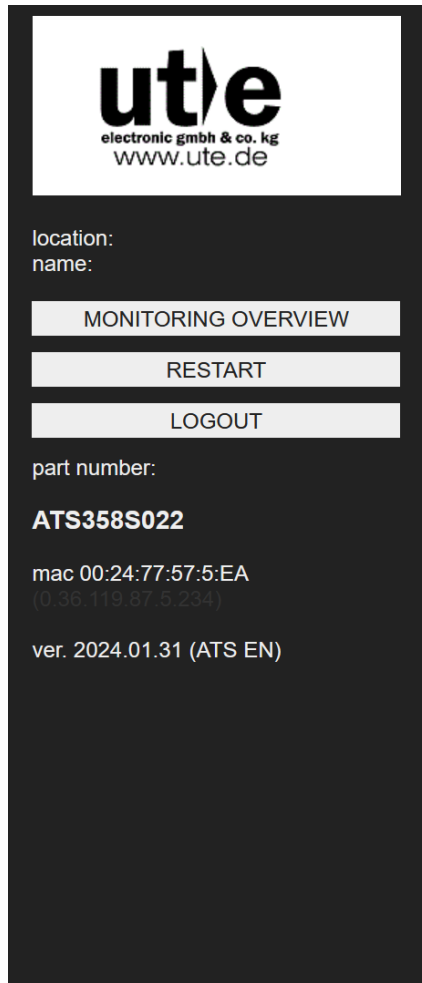
Admin can modify all configuration settings of the PDU.



ATS358S022: Monitored Automatic Transfer Switch PDU

5.2.2 Menu User view

User is entitled just to preview of monitoring menu that contains basic settings and current parameters.




5.3 Monitoring Overview Screen

Basic information about the strip, current values and visualization showing diodes status are shown in the monitoring overview screen.

The Admin view is shown as an example here.

The view between user and admin is only different in the number and accessibility of the menu items (refer to section 5.2).



location:
name:

MONITORING OVERVIEW

MONITORING CONFIGURATION

PDU CONFIGURATION

ALERT CONFIGURATION

DATE AND TIME

LOG

RESTART

LOGOUT

part number:
ATS358S022

mac 00:24:77:57:5:EA

ver. 2024.01.31 (ATS EN)

Monitoring

Voltage					
	Range	Min	Warn	Max	Current
Current	0.0-16.0	0.1	5.0	12.0	1.2 A
Status of Power Sources					
					Status
Power Source - Primary					OK
Power Source - Secondary					OK
Temperature					
	Range	Trigger			Value
Temperature	0.0-65.0	42.0	24 °C		



Example of signalization in case of standard functioning of the strip, all parameters are correct.

- Current section: values of current for power sockets.
- Power sources status section: there is a power in primary and secondary power source.
- Temperature section: indication of current temperature from sensor.
- Visualization of diodes actual state: green diode is on, yellow and red diodes are turned off which means that power sockets/receivers are supplied by primary power source, secondary power source is available.

5.3.1 Description of monitoring screen section

5.3.1.1. Current section

- 'Current – Range' column- defines range of possible to measure parameters of current load in Amperes [A]
- 'Current – Current' column- shows current load value for output sockets.

Current	0.0-16.0	0.1	5.0	12.0	4.2 A
---------	----------	-----	-----	------	-------

- 'Current – Min' column- current load value, below of which alert will be sent (value in 'Current' column will be shown in blue background).

Current	0.0-16.0	0.1	5.0	12.0	0.07 A
---------	----------	-----	-----	------	--------

- 'Current – Warn' column- current load value, above of which alert will be sent (value in 'Current' column will be shown in orange background).

Current	0.0-16.0	0.1	5.0	12.0	7 A
---------	----------	-----	-----	------	-----

- 'Current – Max' column- critical current load value, above of which alert will be sent (value in 'Current' column will be shown in red background).

Current	0.0-16.0	0.1	5.0	12.0	15.1 A
---------	----------	-----	-----	------	--------

5.3.1.2. Power sources status section

'Status' column shows two information: 'OK' or 'no power'. Relevant information is showed and it depends on if there is a power in a power source or not. (To make the server works, there is only one active power source needed. Server automatically detects it and switches to this source).

- Example of signalization when power supply is available in both power sources.

Power Source - Primary	OK
Power Source - Secondary	OK

- Example of signalization when there is a break in power supply in primary power source, but it is available in secondary power source.

Power Source - Primary	no power
Power Source - Secondary	OK

- Example of signalization when power supply is available in primary power source, but there is a break in secondary power source.

Power Source - Primary	OK
Power Source - Secondary	no power

5.3.2 Temperature monitoring section

To see the values of temperature, it is necessary to connect temperature sensor to RJ9 socket and activate the temperature monitoring which is described in section 5.5.2. If temperature monitoring is not activated, this area is not displayed.

- Example of signalization of measured temperature [C degrees]. Standard functioning. Value of measured temperature does not cross the limit. The value is highlighted in green color.

Temperature			
	Range	Trigger	Value
Temperature	0.0-65.0	42.0	23.3 °C

- Example of signalization of measured temperature [C degrees]. Alarm functioning. Value of measured temperature crosses the limit. The value is highlighted in red color.

Temperature			
	Range	Trigger	Value
Temperature	0.0-65.0	42.0	47 °C

- Example of signaling no sensor. The message is highlighted in yellow.

Temperature			
	Range	Trigger	Value
Temperature	0.0-65.0	42.0	no sensor

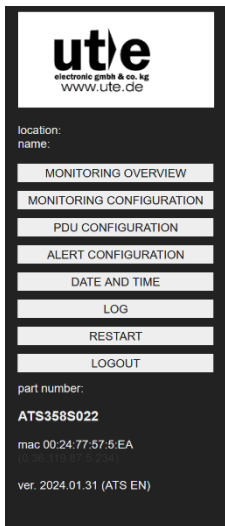
5.3.3 Visualization of diodes actual state

Presentation of monitoring screen views showing possible states of primary and secondary power sources and power supply in power sockets.

The Admin view is also shown as an example in these sections.

The view between user and admin is only different in the number and accessibility of the menu items (refer to section 5.2).

5.3.3.1. Example of signalization in case of standard functioning of the strip, all parameters are correct.



ute
electronic gmbh & co. kg
www.ute.de

location:
name:

- MONITORING OVERVIEW
- MONITORING CONFIGURATION
- PDU CONFIGURATION
- ALERT CONFIGURATION
- DATE AND TIME
- LOG
- RESTART
- LOGOUT

part number:
ATS358S022
mac 00:24:77:57:5:EA
ver. 2024.01.31 (ATS EN)

Monitoring


Voltage					
	Range	Min	Warn	Max	Current
Current	0.0-16.0	0.1	5.0	12.0	1.2 A
Status of Power Sources					
				Status	
Power Source - Primary					OK
Power Source - Secondary					OK
Temperature					
	Range	Trigger		Value	
Temperature	0.0-65.0	65.0		24 °C	



Power sources status section: there is a power in primary and secondary power source.

Visualization of diodes actual state: green diode is on, yellow and red diodes are turned off which means that power sockets/receivers are supplied by primary power source, secondary power source is available.

5.3.3.2. Example of signalization in case of lack of power supply in primary power source.



location:
name:

MONITORING OVERVIEW

MONITORING CONFIGURATION

PDU CONFIGURATION

ALERT CONFIGURATION

DATE AND TIME

LOG

RESTART

LOGOUT

part number:
ATS358S022

mac 00:24:77:57:5:EA

ver. 2024.01.31 (ATS EN)


Monitoring

Voltage					
	Range	Min	Warn	Max	Current
Current	0.0-16.0	0.1	5.0	12.0	2 A
Status of Power Sources					
Power Source - Primary					no power
Power Source - Secondary					OK
Temperature					
	Range	Trigger			Value
Temperature	0.0-65.0	40.0	33.3 °C		



- Power source status section: lack of power in primary power source, power in secondary source is available.
- Visualization of diodes actual state: yellow and red diodes are on- power sockets are supplied by secondary power source, primary power source is unavailable.

5.3.3.3. Example of signalization in case of lack of the power supply in secondary power source, receivers are supplied by primary power source



location:
name:

MONITORING OVERVIEW

MONITORING CONFIGURATION

PDU CONFIGURATION

ALERT CONFIGURATION

DATE AND TIME

LOG

RESTART

LOGOUT

part number:
ATS358S022

mac 00:24:77:57:5:EA

ver. 2024.01.31 (ATS EN)


Monitoring

Voltage					
	Range	Min	Warn	Max	Current
Current	0.0-16.0	0.1	5.0	12.0	2 A
Status of Power Sources					
					Status
Power Source - Primary					OK
Power Source - Secondary					no power
Temperature					
	Range	Trigger		Value	
Temperature	0.0-65.0	40.0		35.5 °C	



- Power source status section: there is a power in primary power source, lack of power in secondary source.
- Visualization of diodes actual state: green and red diodes are on- power sockets are supplied by primary power source, secondary power source is unavailable.

5.3.3.4. Example of signalization when there is a power in primary power source again after the break (when the voltage is stable within 10 seconds).



location:
name:

MONITORING OVERVIEW

MONITORING CONFIGURATION

PDU CONFIGURATION

ALERT CONFIGURATION

DATE AND TIME

LOG

RESTART

LOGOUT

part number:
ATS358S022

mac 00:24:77:57:5:EA

ver. 2024.01.31 (ATS EN)

Monitoring

Voltage					
	Range	Min	Warn	Max	Current
Current	0.0-16.0	0.1	5.0	12.0	12 A
Status of Power Sources					
					Status
Power Source - Primary					OK
Power Source - Secondary					OK
Temperature					
	Range	Trigger			Value
Temperature	0.0-65.0	65.0	23.2 °C		




- Power source status section: there is a power in primary and secondary power source.
- Visualization of diodes actual state: yellow diode is on- primary power source is available again and the strip 'counts' 10 seconds till switching receivers from secondary power source to the primary one (it checks stability of voltage in primary power source). Power sockets are supplied by secondary power source till switching. After switching, yellow diode turns off and green diode turns on.

5.4 Monitoring Settings / Monitoring Configuration Screen

'Monitoring settings' menu enables setting of circuit and temperature limits. Exceeding these limits will cause the alert.

This menu item respectively this section is accessible to administrators only.



location:
name:

MONITORING OVERVIEW

MONITORING CONFIGURATION

PDU CONFIGURATION

ALERT CONFIGURATION

DATE AND TIME

LOG

RESTART

LOGOUT

part number:
ATS358S022

mac 00:24:77:57:5:EA

ver. 2024.01.31 (ATS EN)


Monitoring Configuration

Current									
	Range	Min	Warn	Max	E-mail	Syslog	Log	Trap	Alarm 0A
Current	0.0-16.0	25.5	25.5	25.5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Phase control									
Power Source - Primary					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Power Source - Secondary					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Temperature									
	Range	Trigger			E-mail	Syslog	Log	Trap	
Temperature	0.0-65.0	42.0			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

5.4.1 Current section

In 'Min', 'Warn' and 'Max' columns, in 'Current' section, limit of the current load should be entered (in line with description below). This limit should be in the range mentioned in 'Range' column.


- 'Current – Min'- current load value, below of which alert will be sent
- 'Current – Warn'- current load value, above of which alert will be sent
- 'Current – Max'- critical current load value, above of which alert will be sent
- 'E-mail', 'Syslog', 'Log' and 'Trap' checkboxes are used to tick the way of sending alert when current load value is not in chosen range.
- 'Alarm 0A' checkbox is used to switch on/off the alert in case of no current load in output sockets.

 **Note:** Changes will be stored in EEPROM memory and accommodated by system after tapping 'Save'. If you change the website without tapping it, system uses previous settings saved in its memory and showed right after opening the website.

5.4.2 Phase control section

- 'E-mail', 'Syslog', 'Log' and 'Trap' checkboxes are used to tick the way of sending alert when a phase fails.


The way of sending alert for the primary and secondary phases can be selected and adapted to individual requirements independently of each other.

 **Note:** Changes will be stored in EEPROM memory and accommodated by system after tapping 'Save'. If you change the website without tapping it, system uses previous settings saved in its memory and showed right after opening the website.

5.4.3 Temperature section

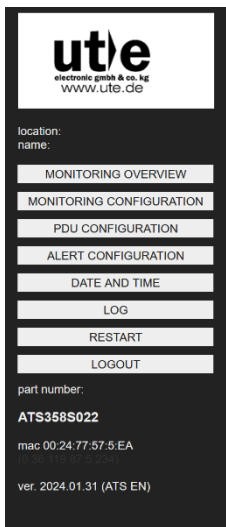
In 'Temperature' section, in column 'Temperature alert configuration' limit of temperature value should be entered [in C degrees]. All values above the limit will cause the alarm.

- 'E-mail', 'Syslog', 'Log' and 'Trap' checkboxes are used to tick the way of sending alert when temperature value is above the limit.

 **Note:** Changes will be stored in EEPROM memory and accommodated by system after tapping 'Save'. If you change the website without tapping it, system uses previous settings saved in its memory and showed right after opening the website.

5.5 System Functions Setup / PDU Configuration Screen

This menu item respectively this section is accessible to administrators only.




PDU Configuration

Settings	Value
Location	lokal
Name	nazwa
DHCP Client	disabled
IP Address	192.168.0.2
Subnet mask	255.255.255.0
Gateway	192.168.0.1
User password	****
Administrator password	*****
Login timeout on website	20 minutes
Auto-refresh website	10 seconds
<input type="button" value="Save"/>	

Temperature monitored	
<input checked="" type="checkbox"/>	<input type="button" value="Save"/>

5.5.1 Configuration of PDU location and network settings


- 'Location' and 'Name' boxes of 'Settings' section allow to describe the place of installation, define location of the PDU in a server room, its functions, etc. Both listings will be showed permanently, also on the left side of the main menu bar. You can enter there up to 8 ASCII signs.
- Communication with the PDU is also possible via 'DHCP client' settings or detailed settings of IP address.
- Standard settings necessary to start the communication
 - IP address: 192.168.0.2
 - Subnet mask: 255.255.255.0
 - Default Gateway: 192.168.0.1

 **Note:** Changes will be stored in EEPROM memory and accommodated by system after tapping 'Save'. If you change the website without tapping it, system uses previous settings saved in its memory and showed right after opening the website.

5.5.2 Configuration of the temperature sensor

In 'Temperature monitoring' section proper box should be ticked to activate the function of monitoring the limit of temperature value entered in 'Monitoring settings' (refer to section 5.4.3).

Then 'Save' field should be clicked.


 **Note:** If the checkbox in the "Temperature monitoring" section is clicked/ activated, the temperature sensor must be connected to the RJ9 socket before clicking the 'Save' field to avoid a malfunction of the temperature measurement.

5.5.3 Passwords setup

In 'Admin password' and 'User password' boxes can be entered up to 8 ASCII signs.


Default settings:

- Admin password- 'admin'
- User password- (empty)

 **Note:** Changes will be stored in EEPROM memory and accommodated by system after tapping 'Save'. If you change the website without tapping it, system uses previous settings saved in its memory and showed right after opening the website.

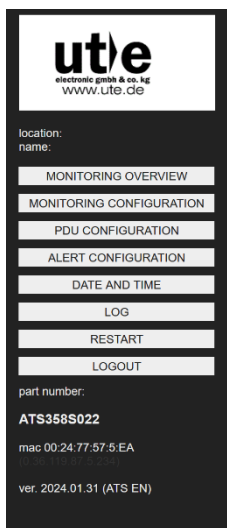
5.5.4 Timeout and Auto-refresh setup

- 'Login timeout on website' - period after which administrator will be logged-out. Time is counted since last activity and this period might last 1 minute, 5 minutes, 20 minutes or 60 minutes.
- 'Auto-refresh website'- period of automatically refreshment of information showed on the website. This period might last 3 seconds, 10 seconds or 1 minute.

 **Note:** Changes will be stored in EEPROM memory and accommodated by system after tapping 'Save'. If you change the website without tapping it, system uses previous settings saved in its memory and showed right after opening the website.

5.6 Alert Configuration

This menu item respectively this section is accessible to administrators only.




Alert Configuration

Settings	Value
SMTP - username	<input type="text"/>
SMTP - password	<input type="text"/>
SMTP - sender	<input type="text"/>
SMTP - recipient	<input type="text"/>
SMTP - IP address for Server	<input type="text"/>
SMTP - port number	<input type="text"/>
Syslog - IP address	<input type="text"/>
Syslog - port number	<input type="text"/>
SNMP - private community	<input type="text"/>
SNMP - public community	<input type="text"/>
SNMP - IP address for Trap	<input type="text"/>
SNTN - IP address for Server	<input type="text"/>
<input type="button" value="Save"/>	


5.6.1 SMTP setup

- In 'SMTP – user name' box can be entered up to 40 ASCII signs.
- In 'SMTP – password' box can be entered up to 10 ASCII signs.
- In 'SMTP – sender' and 'SMTP - recipient' boxes can be entered up to 40 ASCII signs by formula aaa@bbb.cc.
- In 'SMTP – IP address for Server' box can be entered up to 4 numbers from 0 to 255 separated by dots.

Entering '0.0.0.0' IP address and '0' SMTP port will make SMTP deactivated. It means that e-mails will be sent to the address placed in 'SMTP – recipient' box.


 **Attention:** entered sender's and recipient's addresses should be real, because operating system of the strip will be trying to log in indicated mail server and send an e-mail. No response may cause malfunction of the system.

- In 'SMTP – port number' box can be entered a number from 0 to 65535.

 **Note:** Changes will be stored in EEPROM memory and accommodated by system after tapping 'Save'. If you change the website without tapping it, system uses previous settings saved in its memory and showed right after opening the website.


5.6.2 Syslog setup

- In 'Syslog – IP address for Server' box can be entered 4 numbers from 0 to 255 separated by dots.
- In 'Syslog – port number' box can be entered a number from 0 to 65535.

 **Note:** Changes will be stored in EEPROM memory and accommodated by system after tapping 'Save'. If you change the website without tapping it, system uses previous settings saved in its memory and showed right after opening the website.

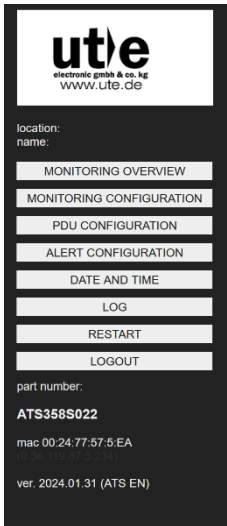
5.6.3 SNMP setup

- In 'SNMP – public community' box can be entered a sequence of up to 15 ASCII signs.
- In this section there is a possibility of setup/ changing the address of NTP server. For this, inscription in 'SNTP- IP address for Server' box should be made.

 **Note:** Changes will be stored in EEPROM memory and accommodated by system after tapping 'Save'. If you change the website without tapping it, system uses previous settings saved in its memory and showed right after opening the website.

5.7 System clock setup / Date and Time screen

This menu item respectively this section is accessible to administrators only.




Date and time

Current time: 2024-04-05 11:54:41

Settings	Value
Year	2024
Month	april
Day	5
Hour	11
Minute	54
<input type="button" value="Save"/>	

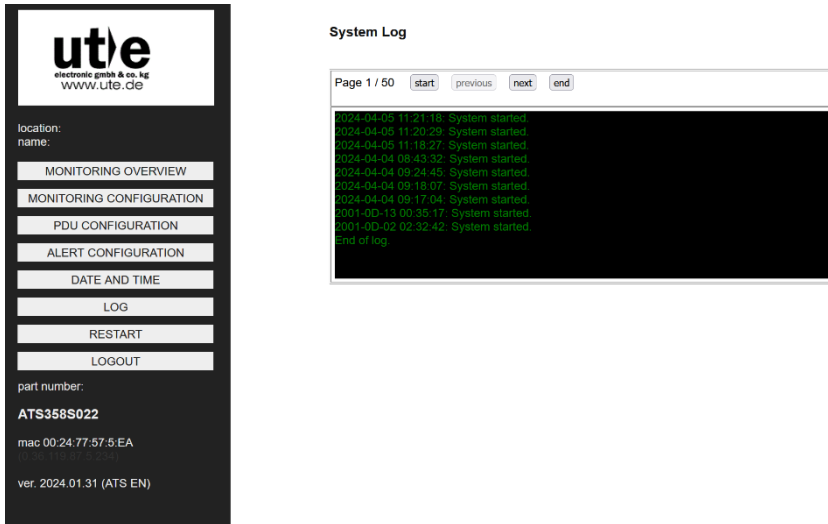
In 'Date and time' section current data should be entered.

If in 'Alert configuration' section, in SNTP server settings box, correct NTP server data are entered, then update/ revision of the internal clock will be automatically.

 **Note:** Changes will be stored in EEPROM memory and accommodated by system after tapping 'Save'. If you change the website without tapping it, system uses previous settings saved in its memory and showed right after opening the website.

5.8 Logbook/ System Log screen

This menu item respectively this section is accessible to administrators only.



'System log' tab- this is a system event log.

'Start', 'Previous', 'Next' and 'End' fields allow to change the viewed pages.

The event log can have up to 50 pages, with up to 10 verses on each one.

5.9 Restart and Logout

These menu items are visible/accessible to both administrators and users.

5.9.1 Restart

Clicking on this menu item restarts the internal webserver without any further prompting or inquiry.

The power supply to the outlets is **not** interrupted.

5.9.2 Logout

Clicking on this menu item will log out the current user (user or admin) without any further prompting or inquiry.

6. Specification

6.1 Technical data

Connectors	
Power Connector	(2) Schuko plugs 2 meters hard-wired input cables
Power Ports	(2) Schuko outlets (German standard) 45° rotated
Network/ Control	(1) Ethernet connector (TCP/IP) - RJ45 sockets
General	
Rated input voltage	230 V
Rated current	16 A
Current Range	0 ~ 16 A
Frequency Range	47 ~ 63 Hz
Ammeter	
AC ammeter	with 3 digits LED display
Measurement range	0,1 A ~ 16 A
Measurement accurate	±2,5%
Characteristics	
Transfer time	Current source A -> Current source B: 15ms Current source B -> Current source A: 12ms
Delay time	Delayed return to power source A - with a time delay of 10 seconds
Webserver	
Webserver	Built-in web server with monitoring of circuits, current load and temperature
Network interface	(1) RJ45 socket (Ethernet 10/ 100 BaseT)
Sensor interface	(1) RJ9 socket - for optional temperature sensor
Protocols	TCP/IP, HHT, SNMP, SMTP, Syslog, DHCP
Mounting	
Rack mounting	Vertical or horizontal mounting in 19" rack - 1U Mounting bracket for installation in 4 orientations included

Physical characteristics	
Material	Body: natural anodized aluminum body Cover: high-quality plastic
Dimension (W*H*D) without mounting brackets	44 x 442 x 44 mm (19", 1U)
Color (Cover)	black similar to RAL9005
Protection level	IP 20
Declaration of Conformity	CE

6.2 Reset to Default settings/ Factory Reset

To make the default reset, you have to press button number 1 (see the drawing in section 2.1) and hold it for 22-30 sec.

These are about 22-30 flashes of the green LED diode.

After releasing the button system will be 'tidying' EEPROM memory, making default reset of all parameters.


For example, it will switch on permanent server IP address, 192.168.0.2.

In the meantime, yellow LED diode will be flashing irregularly.

After finish of this process, PDU will start its normal functioning, for example green LED diode will be flashing slowly, 0.5 sec. ON / 0.5 sec. OFF and yellow LED diode will be flashing once per minute.

7. Troubleshooting & Maintenance

Problems	Potential Causes	Solutions
Cannot control the device by control device (e.g. a PC) through RJ45 ports	Wrong communication (IP address, etc.) parameters.	Type in correct communication parameters.
	Broken RJ45 ports.	Connect authorized dealer for checking.

 **Note:** If your problem still remaining after following the above troubleshooting steps, please contact your local dealer or our technical support (info@ute.de) for further assistance.

8. Customer Service

If there appear some problems when running this device, please check and deal with the problems referring to this user manual. Any transport costs are borne by the users during the warranty.

The return of a product to our Customer Service implies the full agreement of the terms and conditions hereinafter. These terms and conditions may be changed without prior notice.

1) Product Limited Warranty: We warrant that its products will be free from defects in materials and workmanship for two years, which starts from the first day you buy this product (The purchase invoice shall prevail).

Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the Warranty period must be presented to obtain warranty service.

2) Scope

These terms and conditions of Customer Service apply to the customer service provided for the products or any other items sold by authorized dealer only.

3) What the warranty does not cover:

- Warranty expiration.
- Factory applied serial number has been altered or removed from the product.
- Damage, deterioration or malfunction caused by:
 - Normal wear and tear
 - Use of supplies or parts not meeting our specifications
- No certificate or invoice as the proof of warranty.
- The product model showed on the warranty card does not match with the model of the product for repairing or had been altered.
- Damage caused by force majeure.
- Servicing not authorized.
- Any other causes which does not relate to a product defect
- Delivery, installation or labor charges for installation or setup of the product

4) Documentation: Customer Service will accept defective product(s) in the scope of warranty coverage at the sole condition that the defect has been clearly defined, and upon reception of the documents or copy of invoice, indicating the date of purchase, the type of product, the serial number, and the name of dealer.

ATS358S022: Monitored Automatic Transfer Switch PDU

5) Technical Support: Email to our after-sales department or make a call, please inform us the following information about your cases.

- Product version and name.
- Detailed failure situations.
- The formation of the cases.

Remarks: For any questions or problems, please try to get help from your local dealer or our customer support (info@ute.de).



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