

# InteliATS2 50

## Automatic Transfer Switch Controller

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# 1 Front panel elements

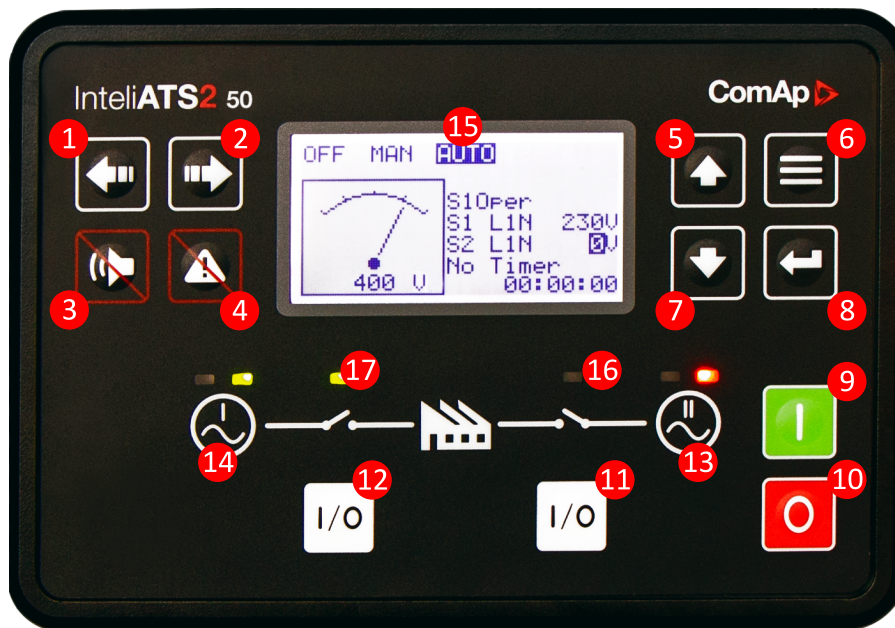














Image 1.1 Operator interface of InteliATS2 50

Control buttons		
Position	Picture	Description
1		<p><b>LEFT</b> button. Use this button to move left or to change the mode. The button can change the mode only if the main screen with the indicator of currently selected mode is displayed.</p> <p><i>Note: This button will not change the mode if the controller mode is forced by one of binary inputs listed in the Reference Guide – "Operating modes" chapter.</i></p>
2		<p><b>RIGHT</b> button. Use this button to move right or to change the mode. The button can change the mode only if the main screen with the indicator of currently selected mode is displayed.</p> <p><i>Note: This button will not change the mode if the controller mode is forced by one of binary inputs listed in the Reference Guide – "Operating modes" chapter.</i></p>
3		<p><b>HORN RESET</b> button. Use this button to deactivate the horn output without acknowledging the alarms.</p>
4		<p><b>FAULT RESET</b> button. Use this button to acknowledge alarms and deactivate the horn output. Inactive alarms will disappear immediately and status of active alarms will be changed to "confirmed" so they will disappear as soon as their reasons dismiss.</p>
5		<p><b>UP</b> button. Use this button to move up or increase value.</p>

6		<b>PAGE</b> button. Use this button to switch over display pages.
7		<b>DOWN</b> button. Use this button to move down or decrease value.
8		<b>ENTER</b> button. Use this button to finish editing a setpoint or moving right in the history page.
9		<b>START</b> button. Works in MAN mode and in Mains-Gen application. Press this button to initiate the start sequence of the engine.
10		<b>STOP</b> button. Works in MAN mode and in Mains-Gen application. Press this button to initiate the stop sequence of the Source 2.
11		<b>S2CB</b> button. Works in MAN mode only. Press this button to open or close the S2CB.
12		<b>S1CB</b> button. Works in MAN mode only. Press this button to open or close the S1CB.

#### Indicators and others

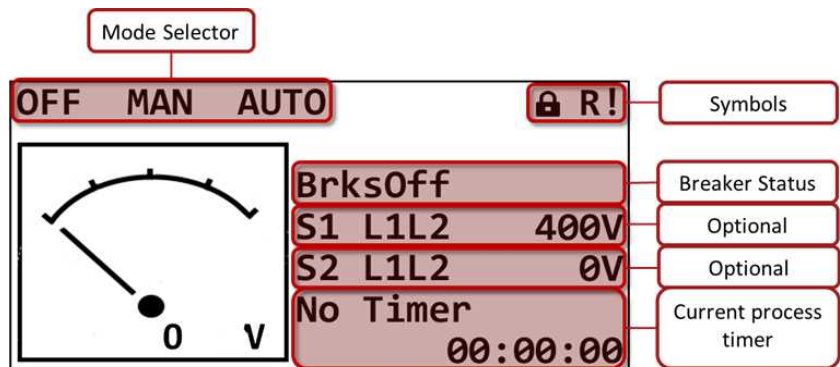
Position	Description
13	<b>Source 1</b> status indicator. There are two states – Source 1 OK (indicator is green) and Source 1 failure (indicator is red). Green LED is on, if Source 1 is present and within limits. Red LED is activated when Source 1 failure occurs.
14	<b>Source 2</b> status indicator. There are two states – Source 2 OK (indicator is green) and Source 2 failure (indicator is red). Green LED is on if the Source 2 voltage and frequency is present and within limits. Red LED is activated when Source 2 failure occurs.
15	Graphic B/W display, 132 × 64 px.
16	<b>S1CB Status</b> . Green LED is on if S1CB is closed. It is driven by S1CB CLOSE/OPEN output or by S1CB feedback signal.
17	<b>S2CB Status</b> . Green LED is on if S2CB is closed. It is driven by S2CB CLOSE/OPEN output or by S2CB feedback signal.

# 2 Display screens

The displayed information is structured into "pages" and "screens". Use the PAGE button to switch over the pages.

- > The page Measurement consists of screens which display measured values such as voltages, current etc.; computed values such as Source 2 power, statistic data and the alarm list on the last screen.
- > The page setpoints contains all setpoints organized to groups and also a special group for a user to log in.
- > The page History log shows the history log with the most recent record displayed first.

## 2.1 Main Screen



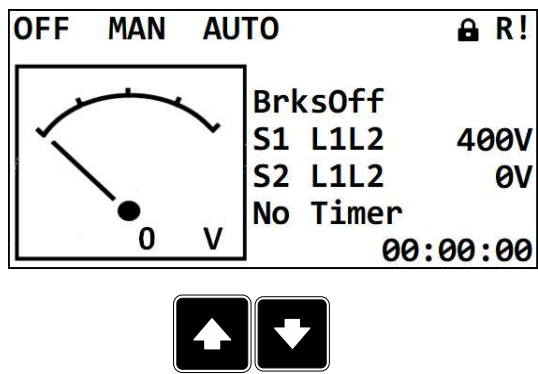
### 2.1.1 Symbols

- > Padlock – active when LBI ACCESS LOCK is active
- > R – active when there is active remote connection to controller
- > Exclamation mark – active when there is any alarm in alarm list

### 2.1.2 Optional

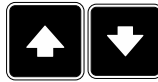
- > Value can be chosen via setpoints **Main Screen Line 1** and **Main Screen Line 2**.

## 2.2 Measurement Screens



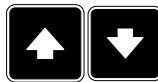
**Note:** Use the Up and Down buttons to move between measurement pages.

Source 1 Voltage			
L1N	230V	L1L2	400V
L2N	230V	L2L3	400V
L3N	230V	L3L1	400V
Source1 Freq			50.0Hz



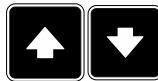
**Note:** Use the Up and Down buttons to move between measurement pages.

Source 2 Voltage			
L1N	230V	L1L2	400V
L2N	230V	L2L3	400V
L3N	230V	L3L1	400V
Source2 Freq			50.0Hz



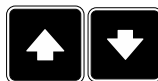
**Note:** Use the Up and Down buttons to move between measurement pages.

Binary Inputs		1/2
00000000		
1 Input		0
2 Input		0
3 Input		0
4 Input		0
5 Input		0



**Note:** Use the Up and Down buttons to move between measurement pages.

Binary Inputs		2/2
000000		
6 Input		0



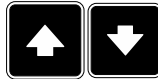
**Note:** Use the Up and Down buttons to move between measurement pages.

Binary Outputs		1/2
00000000		
1	Output	0
2	Output	0
3	Output	0
4	Output	0
5	Output	0



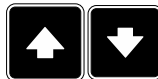
**Note:** Use the Up and Down buttons to move between measurement pages.

Binary Outputs		2/2
000000		
6	Output	0



**Note:** Use the Up and Down buttons to move between measurement pages.

EM-BI08-EFCP		1/2
00000000		
	unused BI01	0
	unused BI02	0
	unused BI03	0
	unused BI04	0
	unused BI05	0



**Note:** Use the Up and Down buttons to move between measurement pages.

**Note:** Available only with plug-in module.

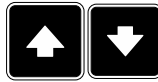
EM-BI08-EFCP		2/2
00000000		
	unused BI06	0
	unused BI07	0
	unused BI08	0



**Note:** Use the Up and Down buttons to move between measurement pages.

**Note:** Available only with plug-in module.

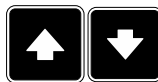
CM-4G-GPS		1/2
Signal Strength		93%
Net Status		0
Net Name		0
Net Mode		4G
Status		0
IPAddr	123.123.123.123	



**Note:** Use the Up and Down buttons to move between measurement pages.

**Note:** Available only with plug-in module.

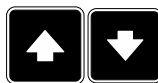
CM-4G-GPS		2/2
GPS Status		
Latitude		0.1234
Longitude		0.1234
HomePosDist		4km
Active Satellites		0



**Note:** Use the Up and Down buttons to move between measurement pages.

**Note:** Available only with plug-in module.

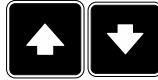
CM-Ethernet	
Current IP Address	123.123.123.123
ETH Interface Status	Disconnected



**Note:** Use the Up and Down buttons to move between measurement pages.

**Note:** Available only with plug-in module.

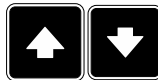
AirGate CM-4G-GPS	
AirGate ID	123456789
Status	
CM-Ethernet	
AirGate ID	123456789
Status	



**Note:** Use the Up and Down buttons to move between measurement pages.

**Note:** Available only with plug-in module.

Plug-in Modules	
Slot A:	Enabled
	Empty



**Note:** Use the Up and Down buttons to move between measurement pages.

Alarmlist		3
* Wrn	Source1 Undervoltage	
* BOS	S2CB Fail	
	MPR S1CB Fail	

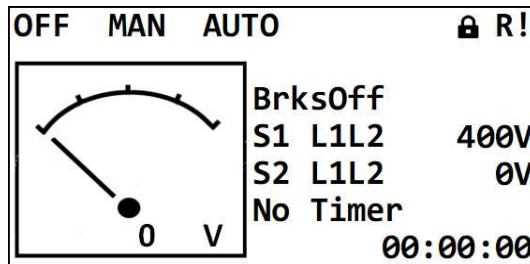


**Note:** Use the Up and Down buttons to move between measurement pages.

**Note:** From all of these pages it is possible to switch seamlessly to the setpoint group page by pressing Page button.

**Note:** There can be some additional screens and also some screens can be hidden. Screen's visibility depends on actual configuration (usage of extension or communication modules, ECU etc.).

## 2.3 Setpoint Screens



**Note:** From all measurement pages you can easily go to the setpoint group page by pressing the Page button.

Login	
Basic Settings	  
Communication Setting	
Source 1	
Source 2	
Load Shedding	
Scheduler	

**Note:** Use Up and Down button to select required setpoint group.



**Note:** Use the Enter button to enter selected setpoint group.

Nominal Power		
Default value	Current value	  
200	120	
Range 1÷5000 kW		

**Note:** Use Up and Down button to select required setpoint.






**Note:** Use the Left and the Right button to select required setpoint.



**Note:** Use the Enter button to enter selected setpoint.

Nominal Power	
Default value 200	New value 120
Range 1÷5000	

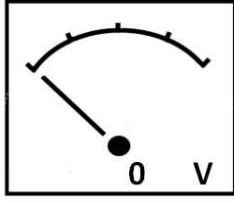
**Note:** Use Up and Down button to set required value of selected setpoint.

**Note:** Use the Enter button to confirm adjusted value of setpoint.



**Note:** Use the Page button to discard changes, to set setpoint to previous value and to return to the list of setpoints of selected group.

## 2.4 History Log

OFF	MAN	AUTO	🔒 R!
		BrksOff	
S1	L1L2	400V	
S2	L1L2	0V	
No Timer		00:00:00	



**Note:** From all measurement pages you can easily go to the setpoint group page by pressing the Page button.

Login
Basic Settings
Communication Setting
Source 1
Source 2
Load Shedding Scheduler



**Note:** From setpoint group page we can fluently go to the history log pages by pressing the Page button.

No.	Reason
000	S1CB Closed
-001	S2CB Opened
-002	S2CB Opened
11:05:45	12/3/2021



**Note:** Use the Up and the Down button to select required alarm reason.



**Note:** Use the Enter button to move to the next page of history log.

Time	Date
10:30:52	04/03/2021
07:03:28	04/03/2021
09:05:12	04/03/2021
22:26:48	03/03/2021
15:49:35	03/03/2021
-001	S2CB Opened



**Note:** Use the Up and the Down button to select required alarm reason.



**Note:** Use the Enter button to move to the next page of history log.

Mode	S1frq	S1V1
AUTO	50.1	230
AUTO	50.2	232
MAN	0.0	0
MAN	49.5	230
OFF	50.0	230
-001	S2CB Opened	



**Note:** Use the Up and the Down button to select required alarm reason.



**Note:** Use the Enter button to move to the next page of history log.

S1V2	S1V3	S1V12
230	230	400
232	232	403
0	0	0
230	230	398
230	230	402
-001	S2CB Opened	



**Note:** Use the Up and the Down button to select required alarm reason.



**Note:** Use the Enter button to move to the next page of history log.

S1V23	S1V31	S2frq
400	400	50.1
403	403	0.0
0	0	0
398	398	49.5
402	402	50.0
<b>-001 S2CB Opened</b>		



**Note:** Use the Up and the Down button to select required alarm reason.



**Note:** Use the Enter button to move to the next page of history log.

S2V1	S2V2	S2V3
232	232	232
0	0	0
0	228	228
230	230	230
231	231	231
<b>-001 S2CB Opened</b>		



**Note:** Use the Up and the Down button to select required alarm reason.



**Note:** Use the Enter button to move to the next page of history log.

S2V12	S2V23	S2V31
400	400	400
0	0	0
403	403	403
398	398	398
400	400	400
<b>-001 S2CB Opened</b>		



**Note:** Use the Up and the Down button to select required alarm reason.



**Note:** Use the Enter button to move to the next page of history log.

VBat	BIN	BOUT
23.3	000000	001010
24.2	001100	001001
22.8	010101	110100
23.9	010101	000001
24.1	010101	101010
<b>-001 S2CB Opened</b>		



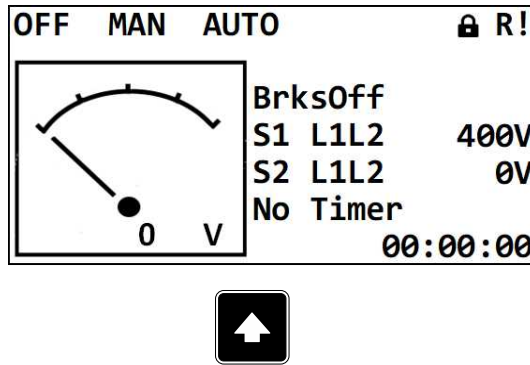
**Note:** Use the Up and the Down button to select required alarm reason.



**Note:** Use the Enter button to move to the next page of history log.

**IMPORTANT:** The records are numbered in reverse order, i.e. the latest (newest) record is "0" and older records have "-1", "-2" etc.

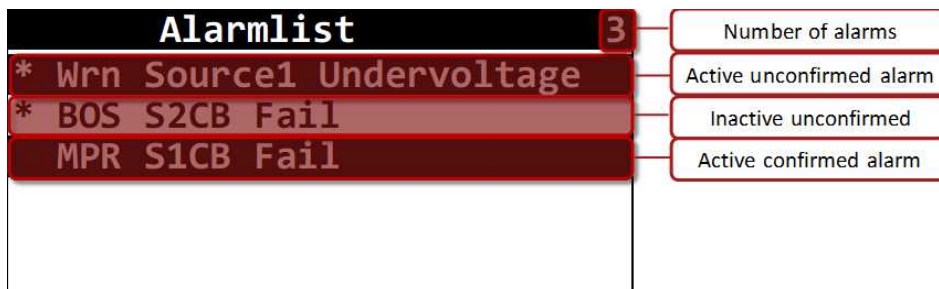
# 3 Browsing alarms



**Note:** Use the Up button to move to alarm list from main measurement screen.

Alarmlist		3
* Wrn Source1 Undervoltage		
* BOS S2CB Fail		
MPR S1CB Fail		

- > Active alarms are displayed as white text on black background. It means the alarm is still active, i.e. the appropriate alarm conditions are still present.
- > Inactive alarms are displayed as black text on white background. It means the alarm is not active, i.e. the appropriate alarm conditions are gone.
- > Unconfirmed alarms are displayed with an asterisk. This means the alarm is still not acknowledged (confirmed).



## 3.1 User access management alarms

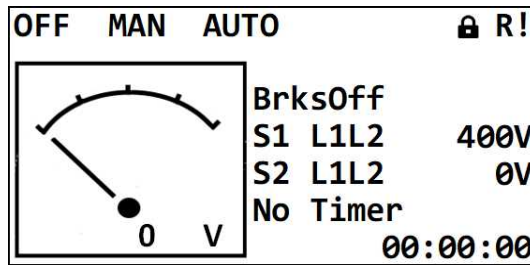
The controller comes to the customer with Production mode turned on, the default administrator password installed and with no prefilled email address for password reset. For security purposes, the following user access management alarms will appear. Detailed description of situation when the alarms are active is provided below:

- > **Wrn Production Mode** is present in the alarm list any time the production mode is turned on. To turn off the Production mode go to User management and uncheck the checkbox Production mode or go to Production Mode display screen and select disable.
- > **Wrn Default Password** appears in alarm list when the default administrator password is set and communication module is plugged in the controller. The purpose of alarm is to inform that the controller

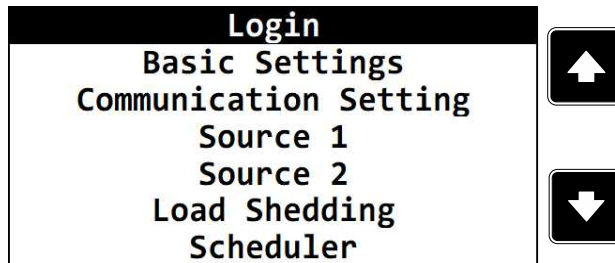
might be or is connected to an untrusted interface and cybersecurity rules are not fulfilled because there is default administrator password.

- **Wrn Password reset e-mail address is not set** appears in alarm list when there is no email address set and the administrator password is not the default one. The purpose of alarm is to inform that there is possibility that the controller might not be accessible by administrator password due to a forgotten password. The password reset procedure cannot be performed without a filled email address. To fill out email address, the administrator password is required.

# 4 Login



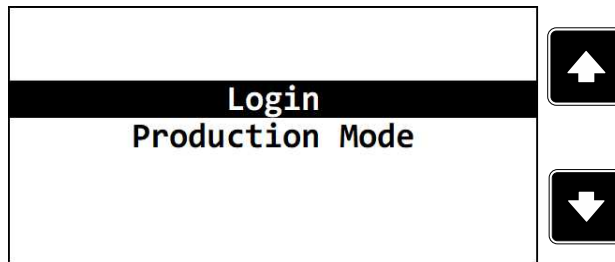
**Note:** From all measurement pages you can easily go to the setpoint group page by pressing the Page button.



**Note:** Use the Up and the Down button to select setpoint group Login.



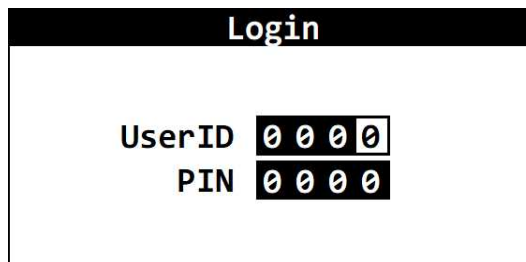
**Note:** Use the Enter button to enter setpoint group Login.



**Note:** Use the Up and the Down Button to select Login.



**Note:** Use the Enter button to enter Login.



## UserID Edit

**Login**

UserID 0 0 0 1  
PIN 0 0 0 0

↑  
↓

← →

**Note:** Use the Up and the Down Button to change the digit.

**Note:** Use the Left and the Right buttons to move between digits.

**Login**

UserID 0 0 0 0  
PIN 0 0 0 0

← ≡

**Note:** Use the Enter button to confirm the UserID or Page button to cancel entering Login.

## PIN Edit

**Login**

UserID 0 0 0 1  
PIN 0 0 1 0

↑  
↓

← →

**Note:** Use the Up and the Down Button to change the digit.

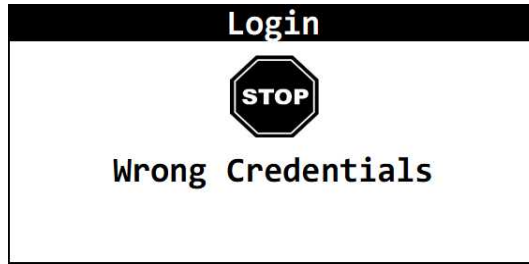
**Note:** Use the Left and the Right buttons to move between digits.

**Login**

UserID 0 0 0 1  
PIN 0 0 1 0

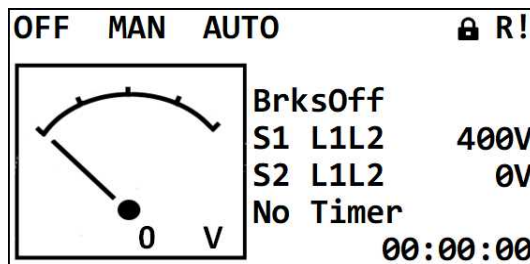
← ≡

**Note:** Use the Enter button to confirm the PIN and Login or the Page button to cancel entering the Login.

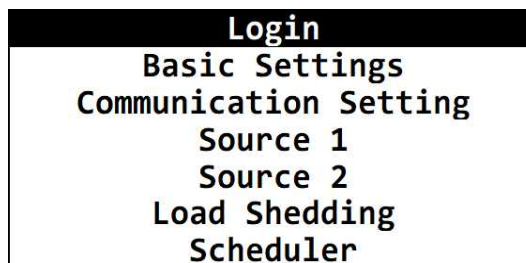


**Note:** In case that invalid UserID or PIN are entered, the controller shows Wrong Credentials screen. Use the Enter button to enter Login again or the Page Button to go back to menu.

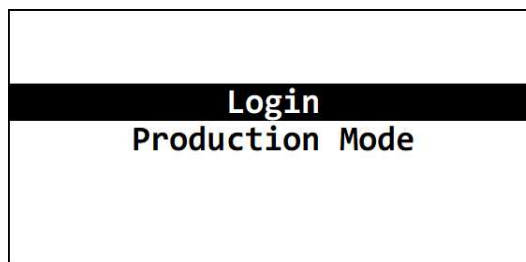
# 5 Production mode



**Note:** From all measurement pages you can fluently go to the setpoint group page by pressing the Page button.



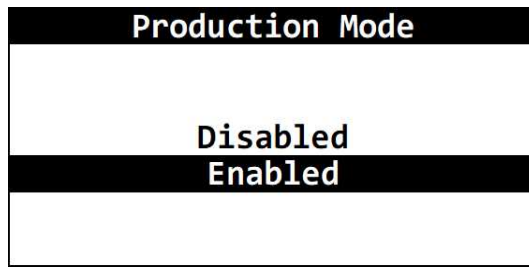
**Note:** Use the Enter button to enter setpoint group Login.



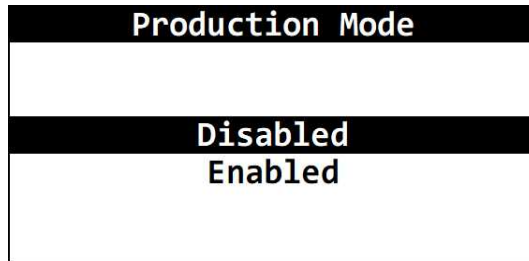
**Note:** Use the Up and the Down Button to select Production Mode



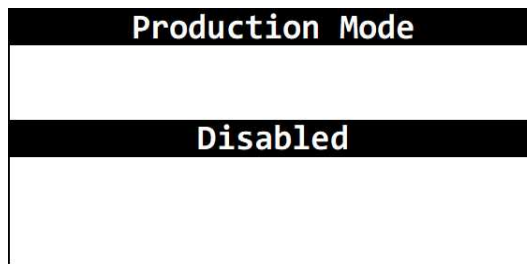
**Note:** Use the Enter button to enter the Production Mode.



**Note:** Use the Up and the Down Button to change to disabled

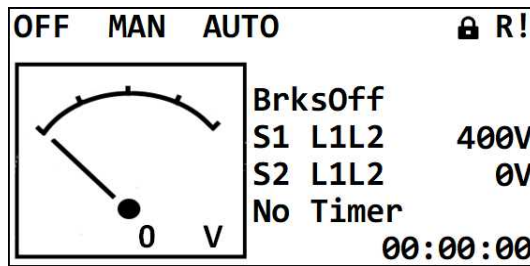


**Note:** Use the Enter button to disable the Production Mode.

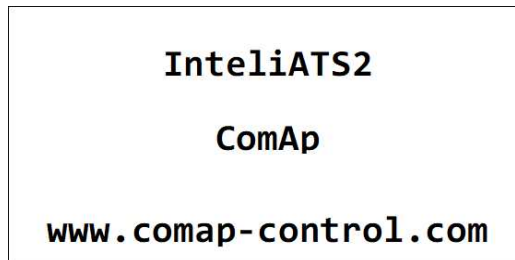


**Note:** Once Disabled is confirmed by Enter button the option Enabled is no longer on the screen and therefore it is not possible to enable Production mode by HMI display screen. Use IntelliConfig to enable the Production mode.

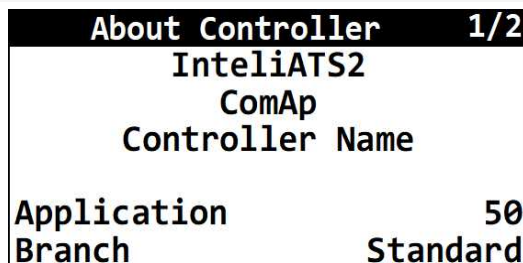
# 6 Information screen



**Note:** On Main measurement screen press the Enter and the Page button together. The Enter button has to be pressed first.



**Note:** Use the Page button to move to the next page.



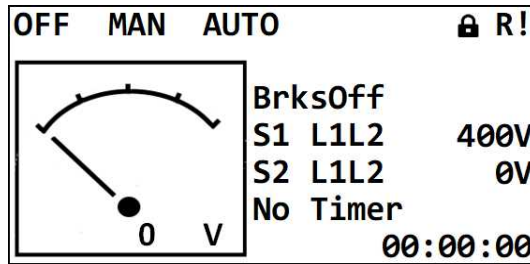
**Note:** Use the Page button to move to the next page.

About Controller		2/2
SW Version	1.0.0.00	
HW Version	1.0	
Serial	12345678	
UserID	1234	
Access level	3	

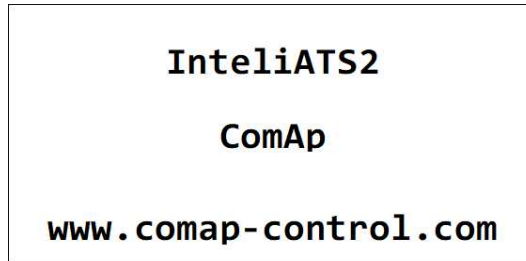


**Note:** Use the Up button to move back to main measurement screen.

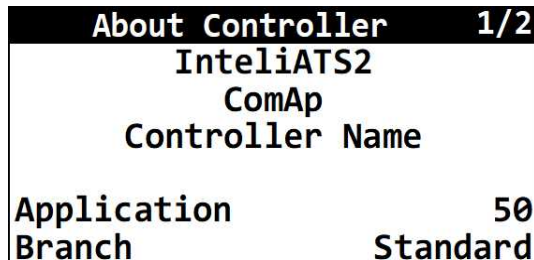
# 7 Language selection



**Note:** On Main measurement screen press the Enter and the Page button together. The Enter button has to be pressed first.



**Note:** Use the Page button to move to the next page.



**Note:** Use the Page button to move to the next page.

About Controller 2/2	
SW Version	1.0.0.00
HW Version	1.0
Serial	12345678
UserID	1234
Access level	3



**Note:** Use the Page button to move to the next page.

Languages
<b>Language1</b>
Language2
Language3

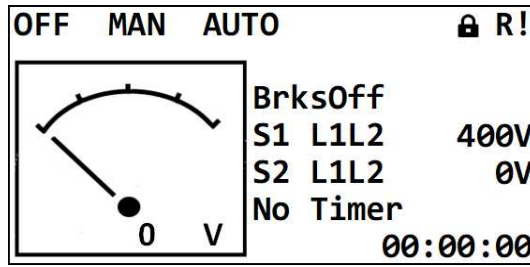


**Note:** Use the Up and the Down button to select required language.



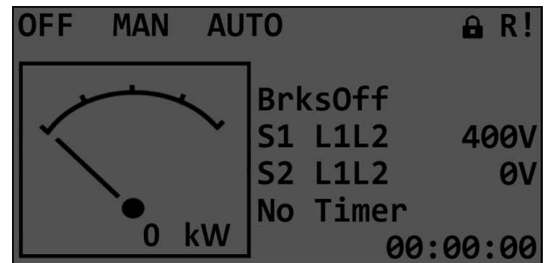
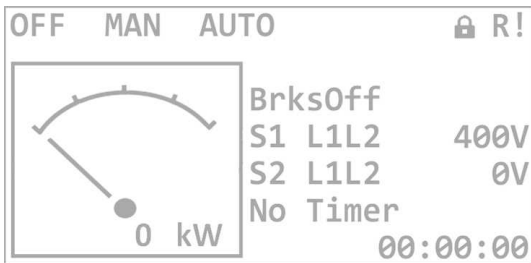
**Note:** Use the Enter button to confirm the selected language.

# 8 Display contrast adjustment



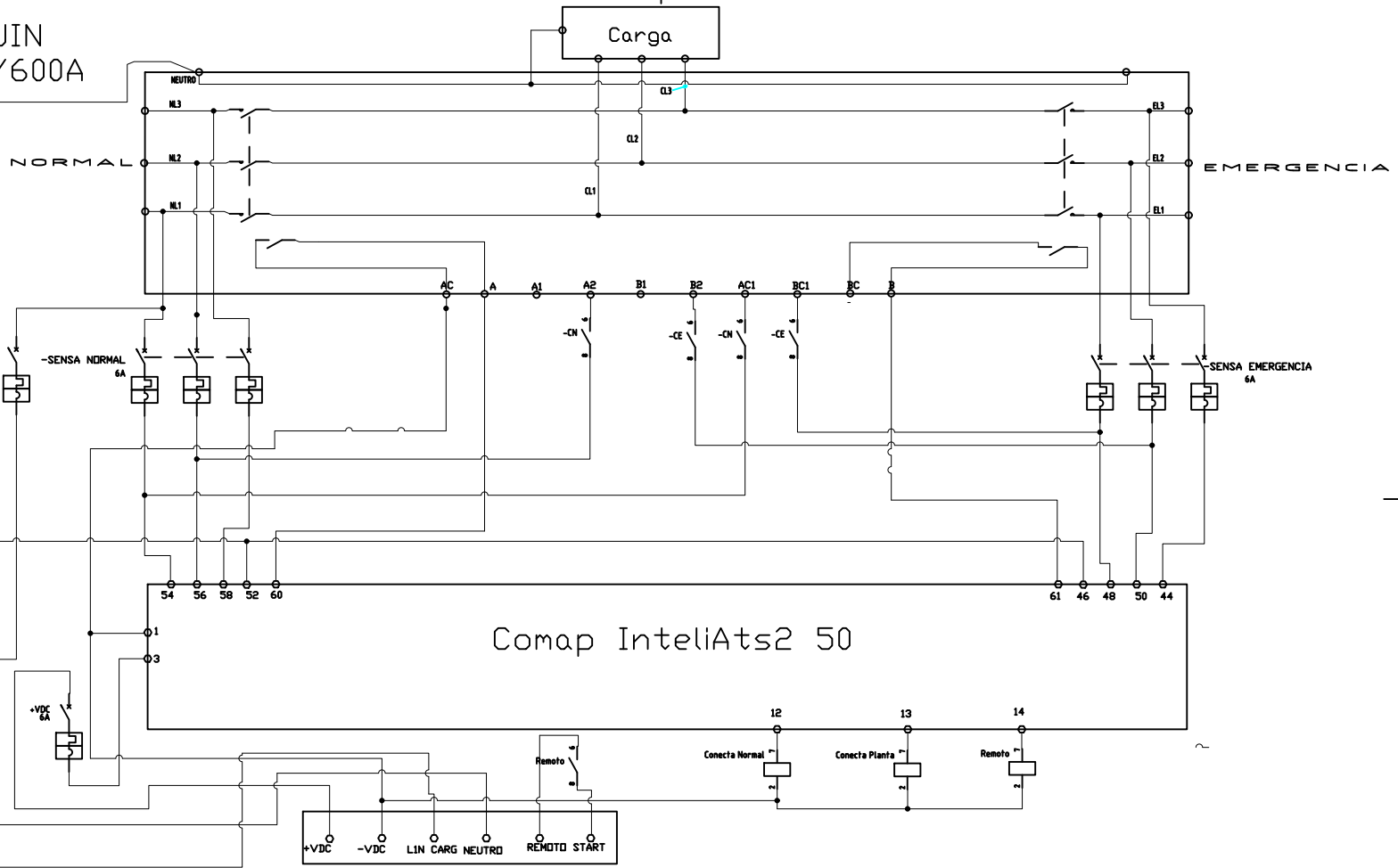
**Note:** On any measurement screen press the Enter and the Up button together for higher contrast.

**Note:** On any measurement screen press the Enter and the Down button together for lower contrast.



**Note:** After setting the contrast, no another action is needed.

ATS  
DAIJIN  
200/600A



BORNERA DE CONEXIÓN PARA  
USUARIOS

				SCALE 1:100	
				MANDO ATS DAIJIN 200/600A	
				SHEETS 1/1	
				FILENAME: MANDO ATS DAIJIN 200/600A	
No:	Revision	Date	By		

DATE NAME  
Edit: 20/6/23 BR. VELOZ  
Check: 21/6/23 BR. GOMEZ