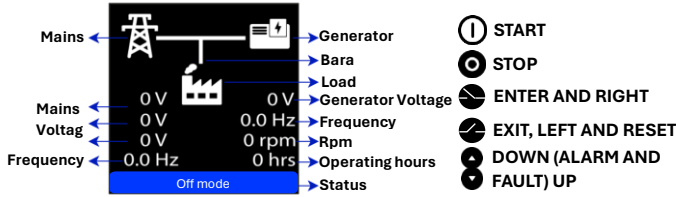


#### MAIN MENU AND KEY IDENTIFICATION



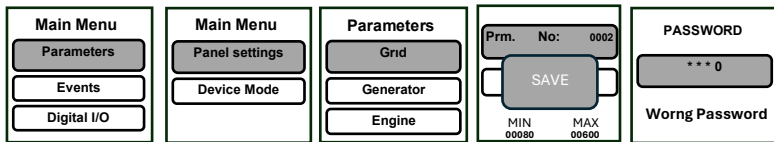
**START BUTTON:** When pressed while the ATS-S Device is in Manual or Automatic Mode, it activates the generator.

**STOP BUTTON:** When pressed, if the generator load is active, the generator switches to cooling mode. If the generator load is inactive, it directly switches to the stop state. Pressing this button transitions the device to the Off Mode.

**GCB BUTTON:** In Auto Button Monitoring pages, it is used for mode transitions within the device. If an AMF Module is defined, Off Mode-Test Mode-Auto Mode selections are made. If an MSU Module is defined, Off Mode-Manual Mode selections are made. Additionally, this button is used as the Enter button in Menu pages when short-pressed.

**MCB BUTTON:** The Exit button is used to exit entered menus. When short-pressed in Monitoring Pages, it performs a reset operation.

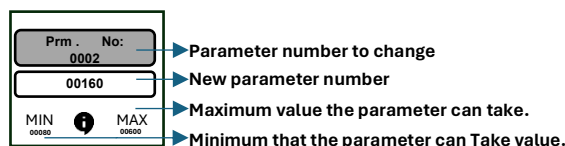
#### MAIN MENU AND USER INTERFACE



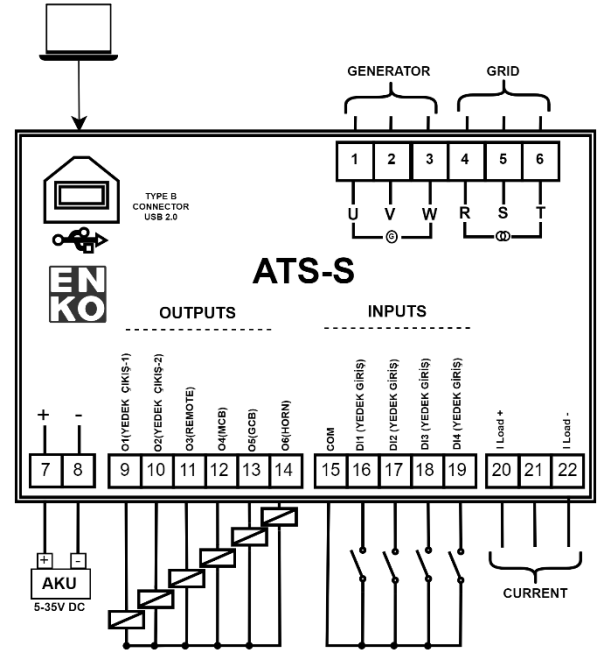
Press the Enter key to access the main menu. Use the Up and Down buttons to change the selection. The key is used to exit and access the sub-menus.

#### PARAMETER MODIFICATION

Press the Enter key from the Main Menu and select the Parameters tab. Enter the Enter Parameter Number tab with the Enter key. Use the keys for up and down to enter the values you want to change. Use the keys for right and left digits to enter and confirm with the Enter key. To exit from the menu without changing parameters, press and hold the Exit key.

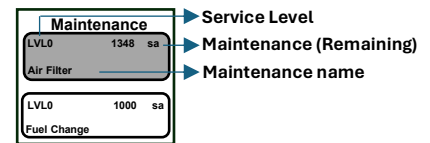


#### ATS-S CONNECTION DIAGRAM



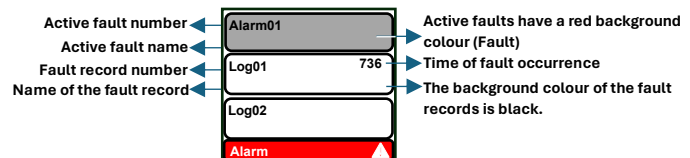
#### SERVICE TIME RESET

The service time you wish to reset is selected with the Up and Down buttons. Then, press and hold the Exit button for 5 seconds.



#### ACTIVE FAULTS AND FAULT RECORDS


Active faults are listed on this page with a red background color. The fault record list begins right below the list of active faults. It can be accessed by pressing the Down button on the main page.



## PARAMETERS

	P.	PARAMETER DESCRIPTION	UNI.	L	MIN.	MAX.	DEF		P.	PARAMETER DESCRIPTION	UNI.	L	MIN.	MAX.	DEF
GRID	101	Off Mode Selection		2	0	1	0	GENERAL	2	Factory Password		3	0	9999	1923
	102	High Voltage Alarm Level	%	1	101	150	115		3	Service Password		2	0	9999	1922
	103	Low Voltage Alarm Level	%	1	50	99	85		4	User Password		1	0	9999	1934
	104	High Frequency Alarm Level	%	1	101	150	104		5	Parameter Record		1	0	2	0
	105	Low Frequency Alarm Level	%	1	50	99	96		6	LANGUAGE		1	0	1	0
	110	Phase Sequence Control Action		1	0	1	1		7	Return to Factory Settings		3	0	2	0
ENGINE	111	Connection Type		2	0	1	1	GENERAL	8	Log Cleanup		3	0	1	0
	301	Generator Connection Type		2	0	1	1		9	Engine Clock Setting		3	0	32000	0
	304	Mode Function		1	0	2	0		10	Menu Timeout	min	3	1	30	5
	328	Nominal Battery Voltage	V	2	100	260	130		11	Exit Menu		1	0	1	0
	329	Battery High Voltage Alarm Action		3	0	4	1		203	Nominal Voltage	V	2	85	240	220
	330	Battery High Voltage Alarm Level	%	2	101	125	125	GENERATOR	205	High Voltage Alarm Action		3	0	4	4
GENERATOR TIMER	331	Battery Low Voltage Alarm Action		3	0	4	1		206	High Voltage Alarm Level	%	2	101	150	115
	332	Battery Low Voltage Alarm Level	%	2	75	99	75		207	Low Voltage Alarm Action		3	0	4	4
	501	High Voltage Alarm Delay	s	3	1	1000	10		208	Low Voltage Alarm Level	%	2	50	99	85
	502	Low Voltage Alarm Delay	s	3	1	1000	10		209	Nominal Frequency	Hz	2	300	600	50.0
	503	High Frequency Alarm Delay	s	3	1	1000	10		211	High Frequency Alarm Action		3	0	4	4
	504	Low Frequency Alarm Delay	s	2	1	1000	10		212	High Frequency Alarm Level	%	2	101	130	106
ENGINE TIMER	505	Circuit Breaker Shutdown Output Pulse Duration	s	2	1	1000	10		213	Low Frequency Alarm Action		3	0	4	4
	507	Phase Sequence Error Delay	s	2	10	1000	10		214	Low Frequency Alarm Level	%	2	50	99	94
	508	High Current Alarm Delay	s	3	1	1000	10		219	Generator Phase Sequence Control Action		1	0	4	1
	509	High Power Alarm Delay	s	3	1	1000	10		220	Generator Overcurrent Alarm Action		3	0	4	4
	601	Initialisation Delay	s	1	0	6000	50		221	Generator Overcurrent Alarm Level	A	2	1	2500	50
	602	Network Stabilisation Period	s	1	0	18000	200		222	Generator Over Power Alarm Action		3	0	4	4
	606	Fault Control Delay	s	3	0	1000	100		223	Generator Over Power Alarm Level	kVA	2	1	32000	300
	613	Cooling Time	s	3	0	18000	300		227	Generator Current Transformer Ratio		2	1	500	20
	615	Transfer Time	s	3	0	6000	7								
	616	Horn Duration	s	2	10	900	30								
	637	ATS No-Stop Delay		1	10	6000	100								
	638	ATS Non-Start Delay		1	10	6000	100								

	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6
Output Function	1101	1103	1105	1107	1109	1111
Default Value	10	1	2	8	6	4
Output Delay	701	702	703	704	705	706
Default Value	0	0	0	0	0	0
Output Contact Type	1102	1104	1106	1108	1110	1112
Default Value	NO	NO	NO	NO	NO	NO
0 : Output Inactive	1 : Starter Output	2 : Fuel Solenoid	3 : Stop Solenoid	4 : Horn Output		
6 : Generator Contactor	8 : Mains Contactor	9 : Ready to Receive Payload Exit	10 : Pre Initialisation	11 : Choke Output		
14 : Cooling Fan	15 : Fuel Pump	22 : General Alarm	49 : Low Fuel Level Alarm	70 : Oil Change Maintenance Alarm		
71 : Air Filter Change Alarm	72 : Fuel Change Maintenance Alarm	73 : General Maintenance Alarm	75 : Output in Automatic Mode	76 : Output in Manual Mode		
77 : Audible Warning Before Operation						
	Input 1	Input 2	Input 3	Input 4	Input 5	Input 6
Input Function	1201	1205	1209	1213		
Default Value	0	1	0	0		
Input Delay	701	702	703	705		
Default Value	0	0	0	1		
Input Contact Type	1202	1206	1210	1214		
Default Value	NC	NC	NC	NC		
0 : Input Inactive	1 : Emergency Stop	2 : Remote Start/Stop	3 : Remote Operation/Upload	4 : Panel Lock		
9 : Start Button Simulation	13 : Stop Button Simulation	16 : Alarm Disabled	17 : Alarm Reset	18 : User Defined		

- NOTE: If the menu exit time has elapsed since the last entered password, the password screen is displayed. It is requested to enter the password again.
- NOTE: Errors and alarms received while in the main menu are reset, but they are not removed from the main screen as information. When the main screen is reached, reset button is pressed again.
- NOTE: In test mode, when the start button is pressed for the first time, the genset is started, but if it is pressed for the second time, the genset feeds the load.
- NOTE: In the event of a fault or warning, the warning symbol is displayed in the lower right corner of the screen and the  status bar flashes red and blue depending on the level of the fault.