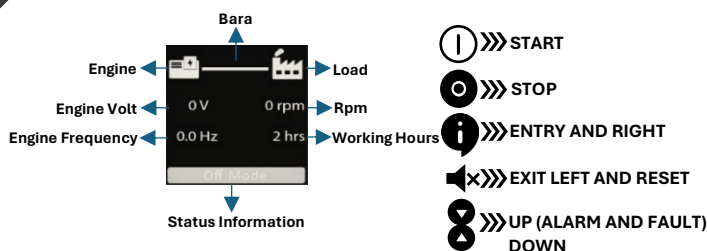


MAIN MENU AND KEY IDENTIFICATION



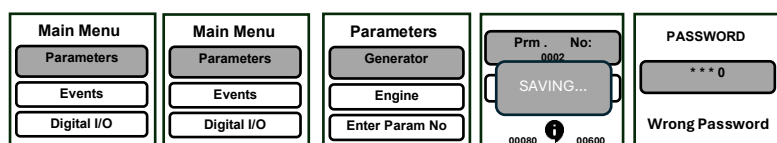
START BUTTON: If the device is set to manual mode, the Start Button is used to start the generator. Additionally, when the generator is operational in these modes, pressing the Start Button activates the generator load.

STOP BUTTON: When the Stop Button is pressed, if the generator load is active, the generator switches to cooling mode. If the generator load is not active, it transitions directly to the stop state. Pressing this button puts the device in Shutdown Mode.

AUTO BUTTON: The Auto Button is used for mode transitions in the device when short-pressed on Monitoring Pages. It facilitates switching between Auto Mode and Manual Mode. Additionally, when short-pressed on Menu Pages, it functions as the Enter Button.

EXIT BUTTON: Alarm Silence Button: When pressed briefly, this button silences the specific alarm shown on the active alarm page in case of any error occurrence. If not on the active alarm page, when on Monitoring Pages, a brief press clears all non-critical errors. Moreover, on Menu Pages, a brief press acts as the Back Button.

MAIN MENU AND USER INTERFACE



Press the Enter **ⓘ** button to enter the main menu. Selection is changed using the Down and Up **⬆** **⬇** buttons. The Exit **⏻** button is used to exit. This allows access to sub-menus.

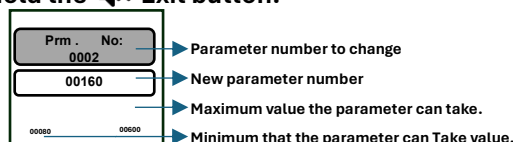
PARAMETER MODIFICATION

Press the Enter **ⓘ** button from the Main Menu and select the Parameters tab.

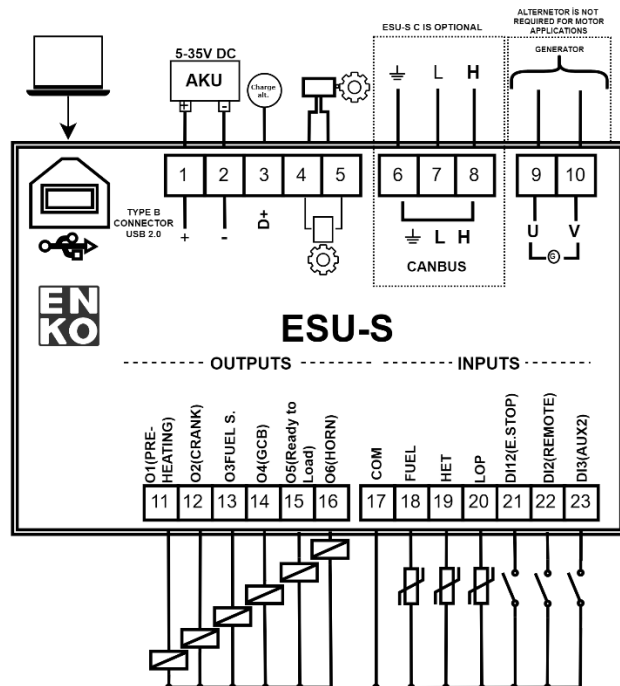
Enter the Parameter Number Input tab by pressing the Enter **ⓘ** button.

Use the Up and Down **⬆** **⬇** buttons to select the desired values.

Navigate through the digits using the Right and Left buttons, **⏻** **ⓘ** then confirm by pressing the Enter button. To exit the menu without entering parameters, press and hold the **⏻** Exit button.

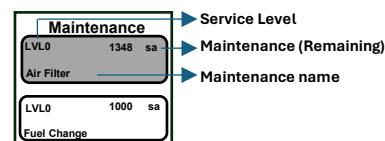


ESU-S CONNECTION DIAGRAM



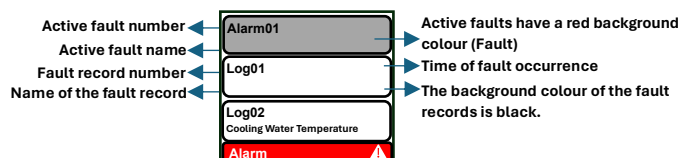
SERVICE TIME RESETTING

Service time desired to be reset up and down is selected with the buttons. Then press the exit button **⏻** for 5 seconds.



ACTIVE FAULTS AND FAULT RECORDS


Active faults are listed on this page with a red background color. Immediately below the list of active faults, the fault log list begins. It opens 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
G R I D	101	Off Mode Selection		2	0	1	0	G E N E R A T O R	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	1	0
E N G I N E	111	Connection Type		2	0	1	1	G E N E R A T O R	8	Log Cleanup		3	0	1	0
	301	Generator Connection Type		2	0	1	0		9	Engine Clock Setting		3	0	32000	0
	302	Engine Type		3	0	1	0		10	Menu Timeout	dk	3	1	30	5
	303	Module Function		3	0	1	0		11	Exit Menu		1	0	1	0
	304	Mode Function		1	0	3	0		201	Alternator Selection		2	0	1	1
	305	Pre-Initialisation Action		2	0	2	0		202	Number of Alternator Poles		1	0	7	1
	306	Starter Cut-off Level from Generator Frequency	Hz	3	150	750	15.0		203	Nominal Voltage	V	2	85	240	220
	307	Starter Cut-off Level from Generator Speed	rpm	3	500	6000	500		205	Generator High Voltage Alarm Action		3	0	4	4
	308	Starter Cut-off Level from Generator Voltage	V	3	60	500	173		206	Generator High Voltage Alarm Level	%	2	101	150	115
	309	Cranking Cut-off Level from Charge Alternator Voltage	V	3	60	300	60		207	Generator Low Voltage Alarm Action		3	0	4	4
	310	Starter Cut-off Level from Oil Pressure	bar	3	10	100	3		208	Generator Low Voltage Alarm Level	%	2	50	99	85
	311	Maximum Number of Starter Attempts		2	1	10	3		209	Nominal Frequency	Hz	2	300	600	50.0
	312	Intermittent Horn Output		1	0	1	0		211	Generator High Frequency Alarm Action		3	0	4	4
	313	Oil Pressure Unit	bar	1	0	1	0		212	Generator High Frequency Alarm Level	%	2	101	130	106
	314	Low Oil Pressure Alarm Action		3	0	4	4		213	Generator Low Frequency Alarm Action		3	0	4	4
	315	Low Oil Pressure Alarm Level	bar	2	5	95	1		214	Generator Low Frequency Alarm Level	%	2	50	99	94
	316	Oil Pressure Switch Open Circuit Action		2	0	4	4		601	Initialisation Delay	s	1	0	6000	50
	317	Temperature Unit	°C	1	0	1	0		603	Pre-run Time	s	2	0	6000	20
	318	High Coolant Temperature Alarm Action		3	0	4	4		604	Maximum Starting Time	s	3	0	600	50
	319	High Coolant Temperature Alarm Level	°C	2	5	150	110		605	Starter Waiting Time	s	3	50	990	100
	320	Coolant Temperature Sender Open Circuit Action		2	0	4	4		606	Fault Control Delay	s	3	0	1000	100
	321	Low Fuel Level Alarm Action		3	0	4	4		607	Choke Duration	s	1	0	600	20
	322	Low Fuel Level Alarm Level	%	2	0	45	5		608	Oil Pressure Switch Starter Cut-off Time	s	3	0	50	0
	323	Fuel Level Switch Open Circuit Action		2	0	4	4		612	Engine Warm-up Time	s	3	0	3600	0
	324	Fuel Pump Lower Limit	%	2	0	90	20		613	Cooling Time	s	3	0	18000	300
	325	Fuel Pump Upper Limit	%	2	5	95	80		616	Horn Duration	s	2	10	900	30
	326	Cooling Fan Low Limit	°C	3	0	240	65		619	Low Oil Pressure Alarm Delay	s	3	1	600	30
	327	Cooling Fan High Limit	°C	3	5	245	100		620	Oil Pressure Sender Open Circuit Delay	s	2	1	600	30
	328	Nominal Battery Voltage	V	2	100	260	130		621	High Coolant Temperature Alarm Delay	s	3	1	600	50
	329	Battery High Voltage Alarm Action		3	0	4	4		622	Coolant Temperature Sender Open Circuit Delay	s	2	1	600	50
	330	Battery High Voltage Alarm Level	%	2	101	125	125		623	Low Fuel Level Alarm Delay	s	3	1	600	10
	331	Battery Low Voltage Alarm Action		3	0	4	4		624	Fuel Level Sender Open Circuit Delay	s	2	1	600	10
	332	Battery Low Voltage Alarm Level	%	2	75	99	75		631	Maintenance Alarm (Oil) Clock	hr	3	200	10000	1000
	334	Charging Alternator High Voltage Alarm Action		3	0	4	4		632	Maintenance Alarm (Air) Clock	hr	3	200	10000	1000
	335	Charging Alternator High Voltage Alarm Level	%	2	101	125	125		633	Maintenance Alarm (Fuel) Clock	hr	3	200	10000	1000
	336	Charge Alternator Low Voltage Alarm Action		3	0	4	0		634	Maintenance Alarm (General) Clock	hr	3	200	10000	1000
	337	Charging Alternator Low Voltage Alarm Level	%	2	75	99	75		635	Service Time Renewal		2	0	4	0
	343	Maintenance Alarm (Oil) Action		2	0	4	2								
	344	Maintenance Alarm (Air) Action		2	0	4	2								
	345	Maintenance Alarm (Fuel) Action		2	0	4	2								
	346	Maintenance Alarm (General) Action		2	0	4	2								
	348	Number of Flywheel Teeth		2	0	1000	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 : Load Ready Output	10 : Pre-start	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 : Automatic Mode Output	76 : Manual Mode Output		
77 : Audible Warning Before Operation						
	Input 1	Input 2	Input 3			
Input Function	1201	1205	1208			
Default Value	0	1	0			
Input Delay	701	702	703			
Default Value	0	0	0			
Input Contact Type	1202	1206	1209			
Default Value	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.