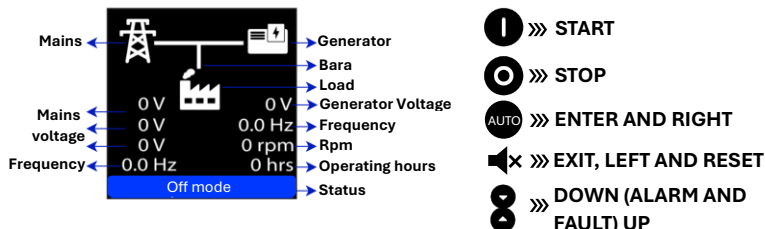


MAIN MENU AND KEY IDENTIFICATION



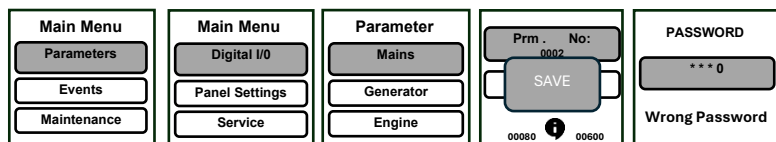
START BUTTON: Used to crank the generator in MSU Manual start Mode or AMF Test Mode. Also, while the generator is running in these modes, pressing the Start Button again will engage the generator load.

STOP BUTTON: When the Stop Button is pressed, if the generator has engaged the load, it will transition to cooling. If the generator has not engaged the load, it will directly enter the stopping state. Pressing this button switches the device to Closed Mode.

AUTO BUTTON: The Auto Button is used for mode transitions in the device during short presses on the monitoring pages. If an AMF Module is defined for the device, selections are made between Off Mode, Test Mode, and Auto Mode. If an MSU Module is defined, selections between Off mode and Manual mode are made. Additionally, this button is used as the Enter button during short presses on Menu pages.

EXIT BUTTON: The Exit Button is used to exit the menus entered. A short press of the Exit Button while on Monitoring Pages performs a reset operation.

MAIN MENU AND USER INTERFACE



Press the Enter **AUTO** key to access the main menu. Use the Up and Down **8** buttons to change the selection. The key is used to exit **X** and access the sub-menus.

PARAMETER MODIFICATION

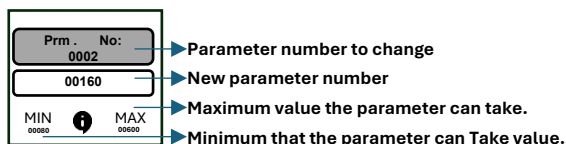
Press the Enter **AUTO** key from the Main Menu and select the Parameters tab.

Enter the Enter Parameter Number tab with the Enter key. **AUTO**

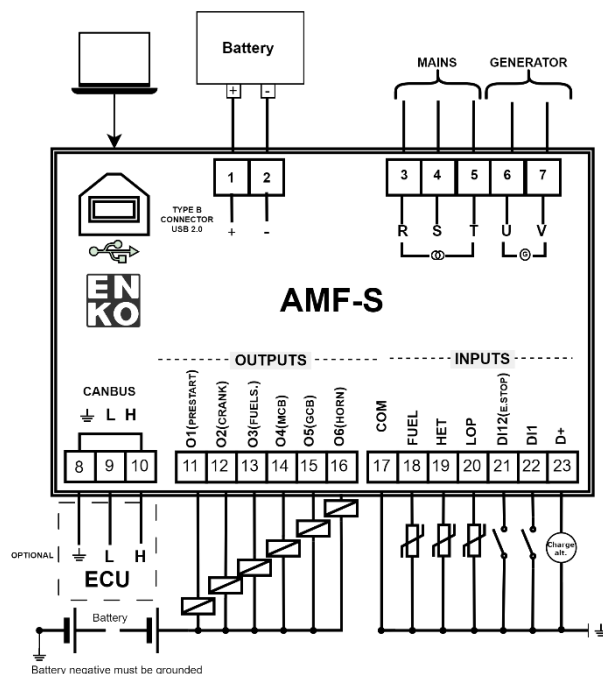
Use the keys for up and down **8** to enter the values you want to change.

Use the keys for right and left **X** **AUTO** digits to enter and confirm with the Enter key.

To exit from the menu without changing parameters, press and hold the Exit key. **X**

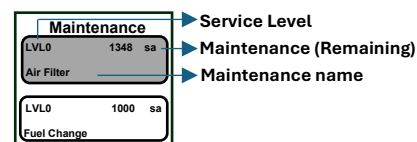


AMF-S CONNECTION DIAGRAM



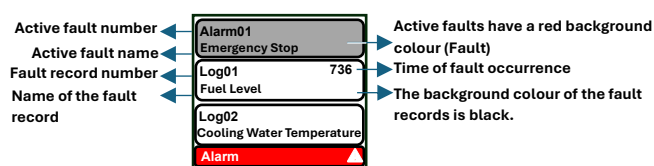
SERVICE TIME RESET

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. **X**



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 **8** button on the main page.



PARAMETERS

Parameter Name	Categories	P.No	Unit	Lev	Min	Max	Default
Password Factory	General	2		3	0	9999	1923
Password Service	General	3		2	0	9999	1922
Password User	General	4		1	0	9999	1934
Parameter Save	General	5		1	0	2	0
Language	General	6		1	0	1	0
Parameter Return Factory	General	7		3	0	2	0
Log Clear	General	8		3	0	1	0
Motor Time Setting	General	9		3	0	32000	0
Menu Timeout	General	10	min	3	1	30	5
Menüden Çıkış Yap	General	11		1	0	1	0
Mains Off Mode Selection	Mains	101		2	0	1	0
Mains Overvoltage Alarm Level	Mains	102	%	1	101	150	115
Mains Undervoltage Alarm Level	Mains	103	%	1	50	99	85
Mains Overfrequency Alarm Level	Mains	104	%	1	101	150	104
Mains Underfrequency Alarm Level	Mains	105	%	1	50	99	96
Mains Phase Sequence Control Action	Mains	110		1	0	1	1
Mains Connection Type	Mains	111		2	0	1	1
Alternator Poles	Generator	202		1	0	7	1
Nominal Voltage	Generator	203	V	2	85	240	220
Generator Overvoltage Alarm Action	Generator	205		3	0	4	4
Generator Overvoltage Alarm Level	Generator	206	%	2	101	150	115
Generator Undervoltage Alarm Action	Generator	207		3	0	4	4
Generator Undervoltage Alarm Level	Generator	208	%	2	50	99	85
Nominal Frequency	Generator	209	Hz	2	300	600	500
Generator Overfrequency Alarm Action	Generator	211		3	0	4	4
Generator Overfrequency Alarm Level	Generator	212	%	2	101	130	106
Generator Underfrequency Alarm Action	Generator	213		3	0	4	4
Generator Underfrequency Alarm Level	Generator	214	%	2	50	99	94
Generator Connection Type	Engine	301		2	0	1	0
Engine Type	Engine	302		3	0	1	0
Module Function	Engine	303		3	0	1	0

Parameter Name	Categories	P.No	Unit	Lev	Min	Max	Default
Mode Function	Engine	304		1	0	3	0
Prestart Action	Engine	305		2	0	2	0
Starter Cut Level From Generator Frequency	Engine	306	Hz	3	150	750	15.0
Starter Cut Level From Engine Speed	Engine	307	rpm	3	500	6000	500
Starter Cut Level From Generator Voltage	Engine	308	V	3	60	500	300
Starter Cut Level From Charge Alternator Voltage	Engine	309	V	3	60	300	60
Starter Cut Level From Oil Pressure	Engine	310	bar	3	10	100	3
Maximum Number of Cranking Attempts	Engine	311		2	1	10	3
Intermittent Horn Output	Engine	312		1	0	1	0
Oil Pressure Unit	Engine	313	bar	1	0	1	0
Low Oil Pressure Alarm Action	Engine	314		3	0	4	4
Low Oil Pressure Alarm Level	Engine	315	bar	2	5	95	1
Oil Pressure Sender Open Circuit Action	Engine	316		2	0	4	4
Temperature Unit	Engine	317	°C	1	0	1	0
High Coolant Temperature Alarm Action	Engine	318		3	0	4	4
High Coolant Temperature Alarm Level	Engine	319	°C	2	5	150	110
Coolant Temperature Sender Open Circuit Action	Engine	320		2	0	4	4
Low Fuel Level Alarm Action	Engine	321		3	0	4	4
Low Fuel Level Alarm Level	Engine	322	%	2	0	45	5
Fuel Level Sender Open Circuit Action	Engine	323		2	0	4	4
Fuel Pump Low Limit	Engine	324	%	2	0	90	20
Fuel Pump High Limit	Engine	325	%	2	5	95	80
Coolant Fan Low Limit	Engine	326	°C	3	0	240	65
Coolant Fan High Limit	Engine	327	°C	3	5	245	100
Nominal Battery Voltage	Engine	328	V	2	100	260	130
Battery Overvoltage Alarm Action	Engine	329		3	0	4	4
Battery Overvoltage Alarm Level	Engine	330	%	2	101	125	125
Battery Undervoltage Alarm Action	Engine	331		3	0	4	4
Battery Undervoltage Alarm Level	Engine	332	%	2	75	99	75
Charge Alternator Overvoltage Alarm Action	Engine	334		3	0	4	4

Parameter Name	Categories	P.No	Unit	Lev	Min	Max	Default
Charge Alternator Overvoltage Alarm Level	Engine	335	%	2	101	125	125
Charge Alternator Undervoltage Alarm Action	Engine	336		3	0	4	0
Charge Alternator Undervoltage Alarm Level	Engine	337	%	2	75	99	75
Maintenance Alarm(Oil) Action	Engine	343		2	0	4	2
Maintenance Alarm(Air) Action	Engine	344		2	0	4	2
Maintenance Alarm(Fuel) Action	Engine	345		2	0	4	2
Maintenance Alarm(Common) Action	Engine	346		2	0	4	2
Start Delay	Engine Timer	601	sec	1	0	6000	50
Mains Return Delay	Engine Timer	602	sec	1	0	18000	200
Prestart Time	Engine Timer	603	sec	2	0	6000	20
Maximum Cranking Time	Engine Timer	604	sec	3	0	600	50
Cranking Wait Time	Engine Timer	605	sec	3	50	990	100
Safety On Delay	Engine Timer	606	sec	3	0	1000	100
Choke Timer	Engine Timer	607	sec	1	0	600	20
Starter Cut Level Oil Pressure Delay	Engine Timer	608	sec	3	0	50	0
Stop Selenoid Timer	Engine Timer	611		3	0	1200	200
Warm Up Time	Engine Timer	612	sec	3	0	3600	0
Cooling Time	Engine Timer	613	sec	3	0	18000	300
Transfer Time	Engine Timer	615	sec	3	0	6000	7
Horn Time	Engine Timer	616	sec	2	10	900	30
Low Oil Pressure Alarm Delay	Engine Timer	619	sec	3	1	600	30
Oil Pressure Sender Open Circuit Delay	Engine Timer	620	sec	2	1	600	30
High Coolant Temperature Alarm Delay	Engine Timer	621	sec	3	1	600	50
Coolant Temperature Sender Open Circuit Delay	Engine Timer	622	sec	2	1	600	50
Low Fuel Level Alarm Delay	Engine Timer	623	sec	3	1	600	10
Fuel Level Sender Open Circuit Delay	Engine Timer	624	sec	2	1	600	10
Maintenance Alarm(Oil) Time	Engine Timer	631	hours	3	200	10000	1000
Maintenance Alarm(Air) Time	Engine Timer	632	hours	3	200	10000	1000
Maintenance Alarm(Fuel) Time	Engine Timer	633	hours	3	200	10000	1000
Maintenance Alarm(Common) Time	Engine Timer	634	hours	3	200	10000	1000
Service Time Reset	Engine Timer	635		2	0	4	0

	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	5 : 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	71 : Air Filter Change Alarm
77 : Audible Warning Before Operation						

	Input 1	Input 2	Input 3	Input 4	Input 5
Input Function	1101	1103	1105	1107	1109
Default Value	10	1	2	8	6
Input Delay	701	702	703	704	705
Default Value	0	0	0	0	0
Input Contact Type	1102	1104	1106	1108	1110
Default Value	NO	NO	NO	NO	NO
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 passed since the last entered password, the password screen will open again, requiring re-entry of the password.
- **NOTE:** While in the main menu, faults and alarms are reset, but they remain as information on the main screen. When returning to the main screen, the reset button must be pressed again.
- **NOTE:** In test mode, pressing the start button for the first time will crank the generator, but pressing it a second time will supply the load.
- **NOTE:** If a fault or warning occurs, a symbol will appear in the bottom right corner of the screen, and the status bar will blink red or blue depending on the severity of the fault. 
- **NOTE:** In all cases, if the load is on the grid or the generator and either source wants to take over the load, it must perform a Transfer to engage the load.