



Model 5110 Configuration and installation instructions

ACCESSING THE CONFIGURATION EDITOR

Press the Stop/Reset **O** and Info **D** buttons simultaneously.

- The LED beside the AUTO button will flash continuously to indicate that configuration mode has been entered.
 - The first configuration setting is displayed:

.

From the configuration table, this example is displaying *Start Delay* (parameter 0). It is currently set to *5 seconds*.

(Factory default settings are shown in the configuration table in *bold italic* text)

EDITING A PARAMETER

- Enter the editor as described above.
- Press + / to scroll through the parameters to the one you want to change.

20

†1

- Press ✓ to enter edit mode. The 1↓ symbol will flash on the display to indicate that edit mode has been entered.
- Press + / to change the parameter to the desired value.
- Press ✓ to save the value and exit edit mode for this parameter.
- The **↑** symbol will be removed from the display to indicate that edit mode has been exited.
- To select another value to edit, press the + / buttons. Continuing to press the + and – buttons will cycle through the adjustable parameters as shown in the following lists.

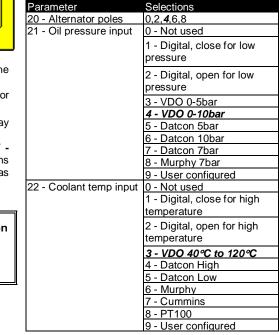
ANOTE: To exit the front panel configuration

editor at any time, press the Stop/Reset button. Ensure you have saved any changes you have made by pressing the ✓ button first

	Parameter	Range
6	0 - Start delay	0-60m (5s)
	1 - Preheat	0-60s (0s)
	2 - Crank attempt	3-60s (10s)
	3 - Crank rest	3-60s (10s)
)	4 - Safety delay	8-60s (8s)
	5 - Warming up	0-60s (0s)
	6 - Return delay	0-60m (30s)
	7 - Cooling run	0-60m (60s)
_	8 - E.T.S. hold	0-60s (0s)
	9 - Sensor fail	1-5s (2s)
	10 - Fail to Stop	10-60s (60s)
	11 - Low Oil Press.	5-150PSI (15PSI)
	12 - High Temp	90-150°C (95°C)
5 /	13 - Under Speed	0-3600RPM (1250RPM)
	14 - Over Speed	300-5000RPM (1750RPM)
	15 – Under freg'	0-60Hz (40Hz)
9	16 - Over freq'	50-72Hz (57Hz)
	17 - Charge Alt Failure	0-25V (8V DC)
	18 - Flywheel teeth	46-300 (0)
	19 - CT Primary	10-6000A (500A)

NOTE:- Setting a timer to zero (0) will disable it (where applicable)

NOTE:- Setting Flywheel teeth to zero (0) will disable magnetic pickup speed sensing. In this instance, engine speed is derived from the alternator output frequency.



Parameter	Sele	ctions	Parameter
23 - Fast loadi			28 - Output 3
enabled	1 - Y		
24 - AC syster	0-3	phases 4 wires	
		phase 2 wire	
		phases 3 wires	
05 0:1	3-2	phases 3 wires	
25 - Oil pressu		ar/PSI	
display u	its 1 - kl	a	
Parameter			
26 - Output 1	0 - Unused		
	1 - Preheat m	ode 0	
	2 - Air flap		
	3 - Close Gen		
	4 - Energise to	o stop	
	5 - Engine run	ning	
	6 - Shutdown	alarm	
	7 - System in a		
	8 - Auxiliary in		
	9 - Auxiliary in	put 2 active	29 - LCD 1
	10 - Auxiliary i	nput 3 active	
	11 - Auxiliary i		
	12 - Auxiliary i		
	13 - Preheat n		
	14 - Preheat n		
	15 - Preheat n		
	16 - Warning a		
	17 - Common	alarm	
27 - Output 2	0 - Unused		
	1 - Preheat mo	ode 0	
	2 - Air flap		
	3 - Close Gen		
	4 - Energise to	o stop	
	5 - Engine run	ning	
	6 - Shutdown	alarm	
	7 - System in a		1
	8 - Auxiliary in		
	9 - Auxiliary in		
	10 - Auxiliary i		30 - LCD 2
	11 - Auxiliary i		30 - LOD Z
	12 - Auxiliary i		
	13 - Preheat n		
	14 - Preheat n		
	15 - Preheat n		
	16 - Warning a		
	<u> 17 - Common</u>	alarili	
	I		

Selection
0 - Unused
0 - Unused 1 - Preheat mode 0
2 - Air flap
3 - Close Generator
4 - Energise to stop
5 - Engine running
6 - Shutdown alarm
7 - System in auto
8 - Auxiliary input 1 active
9 - Auxiliary input 2 active
10 - Auxiliary input 3 active
11 - Auxiliary input 4 active
12 - Auxiliary input 5 active
13 - Preheat mode 1 14 - Preheat mode 2
14 - Preheat mode 2
15 - Preheat mode 3 16 - Warning alarm
16 - Warning alarm
17 - Common alarm
0 - Unused
1 - Preheat mode 0
2 - Air flap
3 - Close Generator
4 - Energise to stop
5 - Engine running
6 - Shutdown alarm
7 - System in auto
8 - Auxiliary input 1 active
9 - Auxiliary input 2 active
10 - Auxiliary input 3 active
11 - Auxiliary input 4 active
12 - Auxiliary input 5 active
13 - Preheat mode 1
14 - Preheat mode 2
15 - Preheat mode 3
16 - Warning alarm
17 - Common alarm
0 Upupod
0 - Unused 1 - Preheat mode 0
2 - Air flap
3 - Close Generator
4 - Energise to stop
5 - Engine running
6 - Shutdown alarm
7 - System in auto
8 - Auxiliary input 1 active
9 - Auxiliary input 2 active
10 - Auxiliary input 3 active
11 - Auxiliary input 4 active
12 - Auxiliary input 5 active
13 - Preheat mode 1
14 - Preheat mode 2
15 - Preheat mode 3
16 - Warning alarm
17 - Common alarm

Parameter	Selection	Parameter	Selection
31 - LCD 3	0 - Unused	33 - Input 1	0 - Delayed, Warning, close to activate
	1 - Preheat mode 0		1 - Delayed, Warning, open to activate
	2 - Air flap		2 - Immediate, Warning, close to activate
	3 - Close Generator		3 - Immediate, Warning, open to activate
	4 - Energise to stop		4 - Delayed, Shutdown, close to activate
	5 - Engine running		5 - Delayed, Shutdown, open to activate
	6 - Shutdown alarm		6 -Immediate, Shutdown, close to activate
	7 - System in auto		7 - Immediate, Shutdown, open to activate
	8 - Auxiliary input 1 active		8 - Remote Start, close to activate
	9 - Auxiliary input 2 active		9 - Remote Start, open to activate
	10 - Auxiliary input 3 active	34 - Input 2	0 - Delayed, Warning, close to activate
	11 - Auxiliary input 4 active	04 mput 2	1 - Delayed, Warning, open to activate
	12 - Auxiliary input 5 active		2 - Immediate, Warning, close to activate
	13 - Preheat mode 1		3 - Immediate, Warning, open to activate
	14 - Preheat mode 2		4 - Delayed, Shutdown, close to activate
	15 - Preheat mode 3		5 - Delayed, Shutdown, open to activate
	16 - Warning alarm		6 - Immediate, Shutdown, close to activate
	17 - Common alarm		7 - Immediate, Shutdown, close to activate
			8 - Electrical trip, close to activate
32 - LCD 4	0 - Unused		9 - Electrical trip, open to activate
	1 - Preheat mode 0	35 - Input 3	0 - Delayed, Warning, close to activate
	2 - Air flap	55 - Input 5	1 - Delayed, Warning, close to activate
	3 - Close Generator		2 - Immediate, Warning, close to activate
	4 - Energise to stop		3 - Immediate, Warning, close to activate
	5 - Engine running		4 - Delayed, Shutdown, close to activate
	6 - Shutdown alarm		5 - Delayed, Shutdown, open to activate
	7 - System in auto		
	8 - Auxiliary input 1 active		6 - Immediate, Shutdown, close to activate
	9 - Auxiliary input 2 active		7 - Immediate, Shutdown, open to activate
	10 - Auxiliary input 3 active		8 - Lamp test, close to activate
	11 - Auxiliary input 4 active	00 lanut 4	9 - Lamp test, open to activate
	12 - Auxiliary input 5 active	36 - Input 4	0 - Delayed, Warning, close to activate
	13 - Preheat mode 1		1 - Delayed, Warning, open to activate
	14 - Preheat mode 2		2 - Immediate, Warning, close to activate
	15 - Preheat mode 3 16 - Warning alarm		3 - Immediate, Warning, open to activate
			4 - Delayed, Shutdown, close to activate
	17 - Common alarm		5 - Delayed, Shutdown, open to activate
			6 - Immediate, Shutdown, close to activate
		07 1 1 5	7 - Immediate, Shutdown, open to activate
		37 - Input 5	0 - Delayed, Warning, close to activate
•		a	1 - Delayed, Warning, open to activate
	The 'preheat modes' selectable for		2 - Immediate, Warning, close to activate
configurable	configurable outputs and LCD indicators		3 - Immediate, Warning, open to activate
perform the following actions :			4 - Delayed, Shutdown, close to activate
- Droho-t	mode 0. Drohoot during prohest finer		5 - Delayed, Shutdown, open to activate
	t mode 0 - Preheat during preheat timer, at end of preheat timer.		6 - Immediate, Shutdown, close to activate
 Preheat mode 1 - Preheat during preheat timer and continue until engine stops cranking. Preheat mode 2 - Preheat during preheat timer and 			7 - Immediate, Shutdown, open to activate
			8 - Oil pressure, Shutdown, close to activate
continue until the safety delay timer has expired.			9 - Oil pressure, Shutdown, open to activate
	mode 3 - Preheat during preheat timer and until the warming timer has expired.		
		1	

In addition, in all preheat modes, preheat takes place during the crank rest timer between crank

cycles.