

CW VDD 87-096-10 eDrive Menus Table

Menu 1	Menu 2	Menu 3	Parameter	Setting or Value	
Channel Setup			Internal Trigger	<u>Enabled</u> or Disabled	
			External Trigger	Enabled or <u>Disabled</u>	
			External Gate	Enabled or <u>Disabled</u>	
			Marking Mode	Enabled or <u>Disabled</u>	
Channel Setup	Q-Switch		Q Switch (QS)	Enabled or Disabled	
			Set Frequency	See Test Report (9.00kHz)	
			Set Window Width	5 $\mu$ s	
			<b>-More- Set FPS Settings</b>	Set Q-Switch Power	100%
				FPS	<u>Enabled</u> or Disabled
				Set FPS Mode	<u>Standard</u> or pre pulse kill
			<b>-More-</b>	Set FPS Delay	See test report (250 $\mu$ s)
				Start Power	See test report (75% to 85%)
				Set Widow Length	See test report (400us to 500us)
			<b>-More-</b>	Set Modulation Type	Exponential
				PPK Open Offset	0 $\mu$ s
				PPK Closed Offset	+00 ns
			<b>-More-</b>	RF Calib	Run Calib.
Channel Setup	Channel 1		Channel 1	<u>Enabled</u> or Disabled	
			Enable Pulse Mode	Pulsed driver only	
			Set Current	See test report (23 amp)	
			Set Standby Current	10.0 A	
			<b>-More-</b>	Set Slew Rate	5.0 A/S
				Slew Control	Enabled
			<b>-More- Fault Setup</b>	Set Current Limit	0A change to 30 A
				Set Voltage Dropout	45V change to 20 V
				Set Current Tolerance	<u>Enabled</u> or Disabled
				Set Current Tolerance	4 A
Channel Setup	Comm 0		TEC (Note, must be done last)	Enabled or <u>Disabled</u>	
			Set Temp.	See test report (+25.0C)	
			Set Tolerance Range	+1.5C	
			<b>-More-</b>	Set Output Voltage	3.5V set to 5.0V
				Set Min. Temp.	+22.0C
				Set Max. Temp.	+45.0C
			<b>-More-</b>	Set P Const.	+4.0C
				Set I Const.	2.00 rep/min
				Set D Const.	0.00 cycles/min
			<b>-More-</b>	Set Control Function	H-BRIDGE

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Menu 1	Menu 2	Menu 3	Parameter	Setting or Value
		<b>-More-</b>	Set Heat Mult.	1.000
			Set Cool Mult.	1.000
			Set Sensor Type	TS67
			Set Sensor Offset	0.00C
			TEC (Note, must be done last)	Enabled or Disabled

Menu 1	Menu 2	Menu 3	Parameter	Setting or Value
<b>Comm Setup</b>	<b>RS-232 Ch 0 Setup</b>		Set Baud Rate	<u>9600</u> or 1200, 2400, 4800,19200, 38400
			Set Bit Frame	<u>8N1</u> , or 801, 8E1, 8N2
			Set Function	None or OVEN TEC, SCPI PS, Loopback, Modbus
			Set Address	<u>1</u> to 247
<b>Comm Setup</b>	<b>RS-232 Ch 1 Setup</b>		Set Baud Rate	<u>9600</u> or 1200, 2400, 4800,19200, 38400
			Set Bit Frame	<u>8N1</u> , or 801, 8E1, 8N2
			Set Function	None or OVEN TEC, SCPI PS, Loopback, Modbus
			Set Address	<u>1</u> to 247
<b>Comm Setup</b>	<b>RS-485 Setup</b>		Set Baud Rate	<u>9600</u> or 1200, 2400, 4800,19200, 38400
			Set Bit Frame	<u>8N1</u> , or 801, 8E1, 8N2
			Set Function	None or Modbus, Loopback
			Set Address	<u>1</u> to 247
<b>Comm Setup</b>	<b>Ethernet Setup</b>		DHCP	Enabled or <u>Disabled</u>
<b>Comm Setup</b>	<b>Ethernet Setup</b>	<b>Set Static IP</b>	Set IP Address	192.168.0.10
			Set Mask	255.255.255.0
			Set Gateway	192.168.0.254
<b>Comm Setup</b>	<b>Ethernet Setup</b>		Set Function	None or TCP/IP Modbus
			Set Address	<u>1</u> to 247

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Menu 1	Menu 2	Menu 3	Parameter	Setting or Value
Interface Setup	Set Trig Out Mode		QSW Active	<u>H</u> igh or Low
			Shutter FPS	<u>E</u> nabled or Disabled
Interface Setup	Shutter Setup		Set Shutter Speed	5 ms
			Closed to Standby	Enabled or <u>D</u> isabled
Interface Setup	Marking Mode Setup		LM Active	<u>L</u> ow or High
			Gate Active	Low or <u>H</u> igh
			FPS Active	Low or <u>H</u> igh

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Menu 1	Menu 2	Menu 3	Parameter	Setting or Value
Utility Functions	System Options		Key Click	Enabled or <u>Disabled</u>
			Adjust Contrast	Dial
			Audible Warning	Enabled or <u>Disabled</u>
Utility Functions	System Options	-More-	Restore Orig. Build Configuration	Yes/No
			Restore Factory Defaults	Yes/No
Utility Functions	System Status	Sys Ctrl (SC)	Firmware Version	2.10.1
			Warranty Timer	3 Hr 47 Min
		-More-	Electronic ID: MAC ID	D1000014A729F201 00603511DAC9
		-More-	Processor ID FPGA Version	575E700FF19BD489 16
		-More-	IP Address Gateway	192.168.0.10/24 192.168.0.254
		-More-	Front Panel Firmware ver. Front Panel ID	11 000014DAEC5601
Utility Functions	System Status	Expansion (EM)	Firmware Version	1.6.0
			Warranty Timer	4 Hr 5 Min
		-More-	Expansion Module ID: OW Count and Fault	0000000000000000 0 and 0
Utility Functions	System Status	Channel 1 (AIM)	Firmware Version	2.2.0
			Warranty Timer	4 Hr 10 Min
		-More-	Current and Temp PS voltage	23.0A and 26C 28.0V
		-More-	CW Run Time CW Power Cycles	0 Hr and 0 Min 0
		-More-	Pulsed Shot Count: Electronic ID	0K 220000001CE30AE4
		Comm 0	TEC Status Temperature Voltage Power Output	 +34.58 C 10.03 V -100.00 %
Utility Functions			Manual Lockout	Enabled or <u>Disabled</u>
Utility Functions	Humidity Options		Measured Current Humidity	Reads measured humidity (38%)
			Adjust Humidity Threshold	30%

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Menu 1	Menu 2	Menu 3	Parameter	Setting or Value
<b>MENU</b> (hold down for quick menu)		<b>-More-</b>	Isense	23.5A
			ISet	23.5A
			Ch 1 Vsense	28.0V
			Ch 1 Active Time	0 Sec
			Ch1 Temp	< 75°C (~50°C typ.)
(For Internal TEC)		<b>-More-</b>	TEC T Sense T Set Power Out	+34.59 C See test report (+25.0 C typ) -100.0 %
<b>MENU</b> (hold down to return to main menu)		<b>-More-</b>	Q Switch Freq	9 kHz
			Q Switch PW	5.00 us