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# **Seven Segments Menu Navigation Guide - UNO Board**

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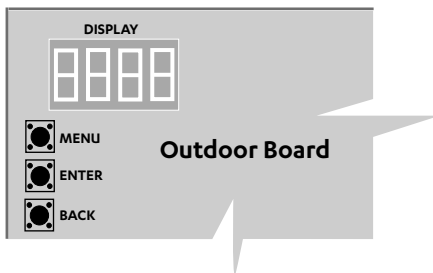
REVISION 2 200828




# SEVEN SEGMENT DISPLAY MENU - UNO BOARD

**Contents:**

1. Legend & Descriptions
2. Default Screen
3. Short Cut into Default Screen
4. Seven segment Flow chart
5. Menu Table
6. Error Codes and Description Table
7. Default Menu Table
8. System Status Table

**1. Legend & Descriptions:**




<b>MENU</b>	 MENU	Scroll through the items at the same menu level. Increment the value being sent.
<b>ENTER</b>	 ENTER	Go into the selected menu. Lock in selected value.
<b>BACK</b>	 BACK	Go back to the parent menu. Press and hold to go back to main menu.

**NOTE:** This document is applicable to both Residential and Commercial Unit.  
Shaded box in MENU tree is only applicable to UNO Board configured for Variable Capacity Commercial Models.




**2. Default Screen:**

When the outdoor board is powered up, the seven segment display will flash the word "boot" for 20 seconds. The system status, menu status or error code will then be displayed. From here on, you can access the menu.

**3. Short Cut to Default Screen:**

Hold the BACK Key " BACK " for 3 secs. to return to Default Screen.

(Display will first show "----" on the seven segment for 1 second then it will show the Default screen

**NOTE:** After pressing either of the MENU Key " MENU ", ENTER Key " ENTER ", or BACK Key " BACK " and the system is left idle for 10 minutes then Seven Segment Display will revert back to Default Screen.

# SEVEN SEGMENT DISPLAY MENU - UNO BOARD

## 5. Menu Table:

Default Menu*	Main Menu		SUB-MENU LEVEL 1		SUB-MENU LEVEL 2		SUB-MENU LEVEL 3		UOM	
	Display	Description	Display	Description	Display	Description	Display	Description		
<b>h00L</b>	Unit is starting up	Display Menu	<b>Lrd</b>	Comp Req Demand					%	
<b>oFF</b>	Unit Off		<b>LrF</b>	Comp Running RPM/PWM		(Value)			RPM / PWM	
<b>L00L</b>	Cooling Mode		<b>EEoP</b>	EEV Opening %		(Value)			%	
<b>HErL</b>	Heating Mode		<b>P-rS</b>	Suction Pressure		(Value)			kPa	
<b>oLr</b>	Oil Return		<b>P-rd</b>	Discharge Pressure		(Value)			kPa	
<b>oHP</b>	Overheat Protection		<b>55h</b>	Saturated Superheat		(Value)			°K	
<b>dLP</b>	Disch. Temp. Protect.		Service Menu	<b>Err</b>	Error Menu	<b>EH 5</b>	Error history	<b>Err1</b>	Error-1 (Latest Error)	As per Error Code and Description Table
<b>ePP</b>	Comp. Press. Protect.							<b>Err2</b>	Error-2	
<b>dEF</b>	Defrosting							<b>Err3</b>	Error-3	
<b>HSP</b>	High Suc. Press. Protection							<b>Err4</b>	Error-4	
<b>d-r-1</b>	DRM1						<b>Err5</b>	Error-5 (Up to Error-15)		
<b>d-r-2</b>	DRM2				<b>EELr</b>	Error history clear	<b>noHES</b>	Delete Error History		
<b>d-r-3</b>	DRM3				<b>oPL</b>	Demand Oper. Mode		oFF / Cool / HEAT	Status	
<b>E1 to E99</b>	Error Codes				<b>oPA</b>	Actual Oper. Mode		oFF / Cool / HEAT	Status	
					<b>o05t</b>	ODB Internal State				
					<b>o05</b>	Outdoor Status		Ac0 / HP0 / Ac4 / HP4	Status	
				<b>Lrd</b>	Compressor Menu		Comp Request Demand	%		
				<b>LrF</b>			Comp Running RPM/PWM	RPM / PWM		
				<b>dlt</b>			Drive temp	°C		
				<b>5U</b>			Supply voltage	V		
				<b>5I</b>			Supply Current	Amp		
				<b>L5F</b>			Override Comp Speed	%		
				<b>EEoP</b>	Electronic Expansion Valve Menu		EEV Opening %	%		
				<b>55h</b>			Saturated Superheat	°K		
				<b>L55h</b>			Target Suction SH	°K		
				<b>55t</b>			Sat Suction temp	°C		
				<b>d55h</b>			Disch. SH Temp.	°C		
				<b>L5PE</b>		Suction Pipe Temp.	°C			

\* See page 7 for additional detail

# SEVEN SEGMENT DISPLAY MENU - UNO BOARD

5. Menu Table:

Default Menu		Main Menu		SUB-MENU LEVEL 1		SUB-MENU LEVEL 2		SUB-MENU LEVEL 3		UOM
Display	Description	Display	Description	Display	Description	Display	Description	Display	Description	
		<b>EE</b>	Temperature Menu	<b>ESPT</b>	Compressor Suction Pipe temperature	(Value)				°C
				<b>Ed</b>	Comp Discharge temperature	(Value)				°C
				<b>Et</b>	Ambient temp	(Value)				°C
				<b>edct</b>	ODU coil temp	(Value)				°C
				<b>Edht</b>	Liquid Heat Temp.	(Value)				°C
				<b>Edct</b>	Liquid Cool Temp.	(Value)				°C
		<b>Pr</b>	Pressure Menu	<b>PrS</b>	Pressure Suction	(Value)				kPa
				<b>Prd</b>	Pressure Discharge	(Value)				kPa
		<b>df</b>	ODU Fan	<b>d</b>	Off					
				<b>l</b>	Low					
				<b>z</b>	Medium					
				<b>3</b>	High					
		<b>def</b>	Defrost Menu	<b>deFP</b>	Defrost Parameters	<b>edct</b>	ODU coil temp			°C
						<b>dL</b>	De-ice last accumulation time			min
						<b>dh</b>	De-ice hold time			min
						<b>dic</b>	De-ice confirm time			sec
						<b>dht</b>	Defrost hold time			min
				<b>FdeF</b>	Forced De-ice	<b>on/off</b>	De-ice ON / OFF			Select
		<b>ds</b>	IDU Status	<b>edct</b>	ID Coil Temp.	(Value)				°C
				<b>deFP</b>	ID Fan Running PWM	(Value)				%
				<b>deFr</b>	ID Fan Running RPM	(Value)				RPM
				<b>Edc3</b>	ID-OD Good Packet	(Value)				--
				<b>Edcb</b>	ID-OD Bad Packet	(Value)				--
				<b>Edcl</b>	Clear above 2 Stat.	(Value)				Done
		<b>Eno</b>	Software No.	<b>xxx</b>	ODU Software No.	(Value)				--
		<b>ESL</b>	Test Mode	<b>off</b>	Test Mode OFF					Select
				<b>SLE</b>	Service Cooling Test Mode					
				<b>SHL</b>	Service Heating Test Mode					
		<b>PLP</b>	Pump Down	<b>off</b>	Pump down OFF					Select
				<b>on</b>	Pump down ON					
		<b>oHP</b>	OHP Status	<b>oPL</b>	OHP Line	(Value)				(Value)
				<b>oPCL</b>	OHP Target Cond Temp	(Value)				(Value)
				<b>oCLP</b>	ODU Cond Pres Value	(Value)				(Value)
				<b>oPfn</b>	OHP Start Value	(Value)				(Value)

# SEVEN SEGMENT DISPLAY MENU - UNO BOARD

## 5. Menu Table:

Default Menu		Main Menu		SUB-MENU LEVEL 1		SUB-MENU LEVEL 2		SUB-MENU LEVEL 3	
Display	Description	Display	Description	Display	Description	Display	Description	Display	Description
		5EE	Settings	enF9	Family (First two digits) and Capacity (Last two digits) Configuration	0100*	Fix Speed	29/33	--
						0200*	Digital System	.16/.18/21/24	Select
						0300*	Platinum 3-Phase (Default)	.16/.18/21/24	Select
						0400*	Efficiency 3-Phase	.16/.18/21/24	Select
						0500*	Efficiency 1-Phase	.14/.16/.18	Select
				0br5	Control Source	0	3rd Party		Select
						1	Wall Controller (Default)		
						2	Basic BMS		
						3	Wall Controller + Basic BMS		
						4	Advanced BMS		
				0d45	Indoor Unit Settings	FP1	Low PWM		%
						FP2	Medium PWM		%
						FP3	High PWM		%
						Fr1	Low RPM		RPM
						Fr2	Medium RPM		RPM
						Fr3	High RPM		RPM
						FP4	ID Fan Defrost PWM		%
						FP5	Reduce Fan A/F PWM		%
						F1 L	Filter Hours		hrs
						Econ	Economy Cycle Output		%
						Fr5E	Fan Setting	02	Regal
								35	Elgee
						HE5L**	Hot Start	on/off	on (Default)
				5off	Enable Soft Start	na/YES	na (Default)		Select
				run	Run Indicator	na/YES	na (Default)		Select
				0df5	Start-up Speed	H	High Speed (Default)		Select
						Lo	Low Speed		Select

\* First two digits will be flashing. Select the Family by pressing **Menu** first then press **Enter** to accept. Then the last two digits will be flashing.

Select the Capacity by pressing **Menu** then press **Enter** to accept.

\*\* Feature is not available at this stage.

**NOTE:** Shaded box is only applicable to Platinum 3-Phase Models.

## SEVEN SEGMENT DISPLAY MENU - UNO BOARD

### 6. Error Codes and Description Table:

ERROR CODE	DESCRIPTION	ERROR CODE	DESCRIPTION
E01	Indoor Fan RPM Feedback Error	E65	VSD Compressor U Phase Current Sensor Fault
E02	Indoor Coil IN Sensor Error (open or short circuit)	E66	VSD AC Voltage Imbalance / AC Input Loss of Phase
E03	Indoor Room Temp. Sensor Error (Open or short circuit)	E67	VSD Inverter De-saturation
E04	Indoor Coil IN Temp. Sensor Error (open or short circuit)	E68	VSD Compressor V Phase Current Sensor Fault
E06	High Discharge Temp. (Discharge Temp exceeded 138°C)	E69	VSD PFC-IGBT Over Temp
E07	Outdoor Coil Temp. Sensor Error (Open or short circuit)	E70	VSD Lost Rotor Position
E08	Discharge Temp. Sensor Error (Open or short circuit)	E71	VSD Motor Temp Sensor Error
E09	LP Switch Tripped	E72	VSD Precharge Relay Open
E10	LP Sensor Error (Open/short circuit)	E73	VSD Compressor W Phase Current Sensor Fault
E11	HP Switch Tripped	E74	VSD Compressor Phase Over Current
E12	HP Sensor Error (Open/short circuit)	E75	VSD Compressor Phase Current Fold Back Timeout
E13	VSD HSP Connector (Jumper Pin Missing)	E76	VSD Power Module Temp. Fold Back Timeout
E15	Communication Error Between ODU to VSD	E77	VSD AC Input Current Fold Back Timeout
E18	Suction Temp. Sensor Error (Open/short circuit)	E78	VSD Auto Config Communication Timeout
E22	Ambient Temp. Sensor Error (Open/short circuit)	E79	VSD IPM Desat Protection/Compressor HW Over Current
E26	VSD Supply Over Current	E80	VSD Motor Temp High
E27	VSD Supply Over Voltage	E81	VSD Board Temp High
E28	VSD Temperature High	E82	VSD Power Module Temp High
E29	VSD Low Supply Voltage	E83	VSD PFC-IGBT Temp High
E30	VSD Trip Lock	E84	Communication Error in VSD Between DSP to PFC
E41	VSD DC Link Voltage Low	E85	Communication Error in VSD Between Comms to DSP
E42	Envelope Protection Error (Extreme Low Evaporating Pressure)	E86	Compressor Phase Current Imbalance
E43	Envelope Protection Error (High compression ratio)	E87	VSD 3 Phase PFC Current Imbalance
E44	Envelope Protection Error (High condensing pressure)	E88	VSD Micro Electronic or EEPROM Error
E45	Envelope Protection Error (Low compression ratio)	E89	VSD Motor Over Speed
E47	Compressor Torque Limit Error	E90	VSD Compressor Model Configuration Error
E50	Outdoor Board Configuration Error	E91	VSD Inverter Temp Imbalance
E51	Communication Error Between Outdoor to Indoor Unit	E92	VSD PFC Temp Imbalance
E52	Communication Error Between Indoor Unit to Wall controller	E93	VSD Motor Temp Low
E53	IDU VAV Communication error (not applicable)	E94	VSD Board Temp Low
E54	IDU RS485 Fan communication error (not applicable)	E95	VSD Power Module Temp Low or Sensor (Open or short circuit)
E55	Communication Error Between BMS to ODU	E96	VSD PFC-IGBT Temp Low
E56	No Master Wall Controller Detected	E97	VSD Comms ADC Failure
E60	VSD Compressor Phase Over Current	E98	VSD PFC / Input Current Sensor Fault
E61	VSD Compressor Loss of Phase	E99	VSD Compressor Overload
E62	VSD DC Bus Over Voltage	E100	VSD PFC Hardware Over Current
E63	VSD DC Bus Under Voltage	E101	VSD PFC Software Over Current
E64	VSD Compressor Loss of Rotor	E102	VSD PFC Over Voltage

## SEVEN SEGMENT DISPLAY MENU - UNO BOARD

### 7. Default Menu Table:

Status Code	Category	Unit Running Status
boot	Status	Unit is starting up
oFF	Status	Unit Off or Unit Turning Off (flashing)
CoOL	Status	Unit Cooling Mode or Start Cooling (flashing)
CoOL	Error	Anti Freeze Protection Mode (not flashing)
HEAT	Status	Unit Heating Mode or Start Heating (flashing)
HEAT	Status	Heating Mode - Indoor coil pre-heat after defrost (not flashing)
oilr	Status	Oil return operation
oHP	Status	Unit derating - Overheat Protection Mode
dEP	Status	Unit derating - Discharge Temperature Protection Mode
cPP	Status	Unit derating - Condenser Pressure Protection Mode
dEF	Status	Heating Mode - Defrost
hSP	Status	Unit derating - High Suction Pressure Protection Mode
dr-1	Status	DRM1
dr-2	Status	DRM2
dr-3	Status	DRM3
E1 to E99	Error	Error Codes

### 8. System Status Table:

oDS	Outdoor Status
RCO	Unit is in cooling mode but indoor demand is 0%.
RC4	Unit is in the cooling must-off timer of 3 min.
HPO	Unit is in heating mode but indoor demand is 0%.
HP4	Unit is in the heating must-off timer of 3 min.

oDSI	Outdoor Board Internal Status
0	Standby
1	Cooling
2	Heating
3	Start Cooling
4	Start Heating
5	Stopping
6	Pre Defrost
7	Defrosting
8	Post Defrost
9	(N/A)
10	Pump Down
255	Booting



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