
Seven Segments Menu Navigation Guide - UNO Outdoor Boards Series

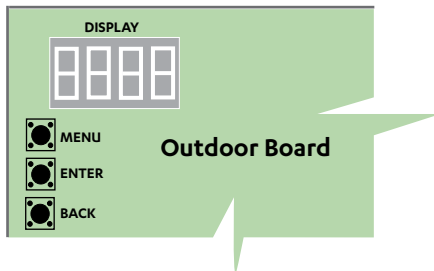
UNO Outdoor Board Series refers to UNO/UNOPRO/UNOJR

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TABLE OF CONTENTS

01. LEGEND AND DESCRIPTIONS	3
02. DEFAULT SCREEN	3
03. SHORT CUT TO DEFAULT SCREEN	3
04. MENU TABLE	4
04.01. Uno Board	4
04.01.01. Uno Board - Display & Service Menu	4
04.01.02. Uno Board - Setting Menu	6
04.02. Uno Pro Board	7
04.02.01. Uno Pro Board - Display & Service Menu	7
04.02.02. Uno Pro Board - Settings Menu	10
04.03. Uno Jr Board	14
04.03.01. Uno Jr Board - Display and Service Menu	14
04.03.02. Uno Jr Board - Settings Menu	17
05. DEFAULT MENU TABLE	18
06. SYSTEM STATUS TABLE	18

01. LEGEND AND DESCRIPTIONS



MENU	 MENU	Scroll through the items at the same menu level. Increment the value being sent.
ENTER	 ENTER	Go into the selected menu. Lock in selected value.
BACK	 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.

02. 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.

In some models 5-1/5-2/5-3 will be displayed prior to “**boot**”. Refer Uno-Pro Display section for details.

03. 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 Outdoor Board Series

04. MENU TABLE

04.01. Uno Board

04.01.01. Uno Board - Display & Service Menu

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	UOM	
boot off Cool HEAt oLr ohP dEP cPP dEF HSP dr-1 dr-2 dr-3 E1 to E99	Unit is starting up	d5	Display Menu	Lrd	Comp Req Demand	(Value)			%		
	Unit Off			LrF	Comp Running RPM/PWM	(Value)			RPM / PWM		
	Cooling Mode			EEoP	EEV Opening %	(Value)			%		
	Heating Mode			PrS	Suction Pressure	(Value)			kPa		
	Oil Return			Prd	Discharge Pressure	(Value)			kPa		
	Overheat Protection			SSh	Saturated Superheat	(Value)			°K		
	Disch. Temp. Protect.	SEr	Service Menu	Err	Error Menu	EH S	Error history	Err1	Error-1 (Latest Error)	As per Error Code and Description Table	
	Comp. Press. Protect.							Err2	Error-2		
	Defrosting							Err3	Error-3		
	High Suc. Press. Protection							Err4	Error-4		
	DRM1							Err5	Error-5 (Up to Error-15)		
	DRM2			ECLr		Error history clear	no / YES	Delete Error History			
	DRM3			SYSt	System Status ⁽¹⁾	oPC		Demand Oper. Mode	oFF / Cool / HEAt		Status
						oPR		Actual Oper. Mode	oFF / Cool / HEAt		Status
						adSt		ODB Internal State			
						adS		Outdoor Status	Ac0 / HP0 / Ac4 / HP4		Status
	CoP			Compressor Menu	Lrd		Comp Request Demand			%	
					LrF		Comp Running RPM/PWM			RPM / PWM	
					dt		Drive temp			°C	
					SV		Supply voltage			V	
					SC		Supply Current			Amp	
					CSF		Override Comp Speed			%	
	EEV			Electronic Expansion Valve Menu	EEoP		EEV Opening %			%	
SSh		Saturated Superheat			°K						
tSSh		Target Suction SH			°K						
SSt		Sat Suction temp			°C						
dSSh		Disch. SH Temp.			°C						
CSPt		Suction Pipe Temp.			°C						

⁽¹⁾ See page 18 for additional detail

Seven Segment Display Menu

UNO Outdoor Board Series

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	UOM
				tEr	Temperature Menu	CSPt	Compressor Suction Pipe temperature	(Value)		°C
						CDt	Comp Discharge temperature	(Value)		°C
						ABt	Ambient temp	(Value)		°C
						odct	ODU coil temp	(Value)		°C
						L9ht	Liquid Heat Temp.	(Value)		°C
						L9ct	Liquid Cool Temp.	(Value)		°C
				Pr	Pressure Menu	PrS	Pressure Suction	(Value)		kPa
						Prd	Pressure Discharge	(Value)		kPa
				odF	ODU Fan	0 ⁽¹⁾	Off			
						1 ⁽¹⁾	Low			
						2 ⁽¹⁾	Medium			
						3 ⁽¹⁾	High			
						01234 ⁽²⁾	RPM			
				dEF	Defrost Menu	dEFP Defrost Parameters		odct	ODU coil temp	°C
								dL	De-ice Last accumulation time	min
								dh	De-ice hold time	min
								dc	De-ice confirm time	sec
								dht	Defrost hold time	min
						FdEF	Forced De-ice	on/off	De-ice ON / OFF	Select
				idS	IDU Status	idct	ID Coil Temp.	(Value)		°C
						idFP	ID Fan Running PWM	(Value)		%
						idFr	ID Fan Running RPM	(Value)		RPM
						[rcG]	ID-OD Good Packet	(Value)		--
						[rcb]	ID-OD Bad Packet	(Value)		--
						[rc0]	Clear above 2 Stat.	(Value)		Done
				Srno	Software No.	xxx	ODU Software No.	(Value)		--
				tEST	Test Mode	oFF	Test Mode OFF			Select
						SCTE	Service Cooling Test Mode			
						SHEE	Service Heating Test Mode			

⁽¹⁾ Only for Advance A and B Series and VCC 15/17kW models.

⁽²⁾ Only for Aires (CRS) and VCC (CRV/PKV720T to CRV/PKV960T) models.

Seven Segment Display Menu

UNO Outdoor Board Series

04.01.02. Uno Board - Setting Menu

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	UOM
		SEt	Settings	cnF9	Family (First two digits) and Capacity (Last two digits) Configuration	0 100⁽¹⁾	Fix Speed	--		--
						0200⁽¹⁾	Digital System	.29/.33		Select
						0300⁽¹⁾	Platinum 3-Phase (Default)	.16/.18/.21/.24		Select
						0400⁽¹⁾	Advance 3-Phase	.16/.18/.21/.24		Select
						0500⁽¹⁾	Advance 1-Phase	.14/.16/.18		Select
				ctrS	Control Source	0	3rd Party			Select
						1	Wall Controller (Default)			
						2	Basic BMS			
						3	Wall Controller + Basic BMS			
						4	Advanced BMS			
				dlS	Indoor Unit Settings	FP1	Low PWM			%
						FP2	Medium PWM			%
						FP3	High PWM			%
						Fr1	Low RPM			RPM
						Fr2	Medium RPM			RPM
						Fr3	High RPM			RPM
						FPd	ID Fan Defrost PWM			%
						FPc	Reduce Fan A/F PWM			%
						F1L	Filter Hours			hrs
						Econ	Economy Cycle Output			%
						FnSE	Fan Setting	12	Regal	Select
								36	Elgee	Select
						HLSL⁽²⁾	Hot Start	on/off	on (Default)	Select
				SoFt	Enable Soft Start	no / YES	no (Default)			Select
				run	Run Indicator	no / YES	no (Default)			Select
				adFS	Start-up Speed	H	High Speed (Default)			Select
						Lo	Low Speed			

⁽¹⁾ 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.

⁽²⁾ Feature is not available at this stage.

Seven Segment Display Menu

UNO Outdoor Board Series

04.02. Uno Pro Board

04.02.01. Uno Pro Board - Display & Service Menu

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	UOM
5-0 ⁽⁴⁾ 5-1 ⁽⁴⁾ 5-2 ⁽⁴⁾ 5-3 ⁽⁴⁾	Family and Capacity Initialisation	d5	Display Menu	CrD	Comp Req Demand	(Value)			%	
	OD Fan Initialisation			CrF	Comp Running RPM	(Value)			RPM	
	System Family Check and Tamb Assignment			EEoP	EEV Opening %	(Value)			%	
				PrS	Suction Pressure	(Value)			kPa	
				Prd	Discharge Pressure	(Value)			kPa	
	VSD Initialisation			SSH	Saturated Superheat	(Value)			°K	
boot oFF Cool HEAT oLR oHP dtP cPP dEF hSP dr-1 dr-2 dr-3 Er to E999	Unit is starting up Unit Off Cooling Mode Heating Mode Oil Return Overheat Protection Disch. Temp. Protect. Comp. Press. Protect. Defrosting High Suc. Press. Protection DRM1 DRM2 DRM3 Error Codes	SEr	Service Menu	Err	Error Menu	EH 5	Error history	Err0	Error-0	As per Error Code and Description Table
	Err1							Error-1		
	Err2							Error-2		
	Err3							Error-3		
	Err4							Error-4		
	Er 14							Error-6 up to Error-14		
	ECLR					Error history clear	no / YES	Delete Error History		
	SSSt			System Status ⁽¹⁾	oPC	Demand Oper. Mode	oFF / Cool / HEAT		Status	
oPR					Actual Oper. Mode	oFF / Cool / HEAT		Status		
oDSSt					ODB Internal State					
oDS					Outdoor Status	0 / Ac0 / HP0 / Ac4 / HP4		Status		
dFS ⁽²⁾					Drive Foldback Status	---- ⁽³⁾ / CCF / PtF / iCF		Status		
CoP	Compressor Menu			CrD	Comp Request Demand			%		
				CrF	Comp Running RPM			RPM		
				dt	Drive temp			°C		
				SU	Supply voltage			V		
				SC	Supply Current			Amp		
				CSF	Override Comp Speed			%		
EEU	Electronic Expansion Valve Menu			EEoP	EEV Opening %			%		
				SSH	Saturated Superheat			°K		
				ESSH	Target Suction SH			°K		
				SSSt	Sat Suction temp			°C		
				dSSH	Disch. SH Temp.			°C		
				CSPT	Suction Pipe Temp.			°C		

⁽¹⁾ See page 18 for additional details.

⁽³⁾ Refer to System Status Table on page 18.

⁽²⁾ Only for Advance A and B Series, PRV15-17AT/PRV15-17BT and Aires Models

⁽⁴⁾ Only for CRV/PKV720T - CRV/PKV960T Models; if initialisation fails, display will show the S-value flashing.

Seven Segment Display Menu

UNO Outdoor Board Series

Uno Pro Board - Service Menu - Continues

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	UOM
		SEr	Service Menu	TEr	Temperature Menu	CSPE	Compressor Suction Pipe temperature	(Value)		°C
						CDt	Comp Discharge temperature	(Value)		°C
						ABt	Ambient temp	(Value)		°C
						ODct	ODU coil temp	(Value)		°C
						L9Ht⁽¹⁾	Liquid Heat Temp.	(Value)		°C
						L9Ct⁽¹⁾	Liquid Cool Temp.	(Value)		°C
				Pr	Pressure Menu	PrS	Pressure Suction	(Value)		kPa
						Prd	Pressure Discharge	(Value)		kPa
				ODF	ODU Fan	0	Off			
						1	Low			
						2	Medium			
						3	High			
				DEF	Defrost Menu	dEFP	Defrost Parameters	ODct	ODU coil temp	°C
								dIL	De-ice Last accumulation time	min
								dIH	De-ice hold time	min
								dIC	De-ice confirm time	sec
								dHt	Defrost hold time	min
						FdEF	Forced De-ice	on/off	De-ice ON / OFF	Select
				IDS	IDU Status	dCt	ID Coil Temp.	(Value)		°C
						dFP	ID Fan Running PWM	(Value)		%
						dFr	ID Fan Running RPM	(Value)		RPM
						CrG	ID-OD Good Packet	(Value)		--
						CrB	ID-OD Bad Packet	(Value)		--
						Cr0	Clear above 2 Stat.	(Value)		Done
				Stno	Software No.	XX	ODU Software No.	(Value)		
				TEST	Test Mode	OFF	Test Mode OFF			Select
						SCtE	Service Cooling Test Mode			
						SHtE	Service Heating Test Mode			

⁽¹⁾ Only for Advance A and B Series, PRV15-17AT/PRV15-17BT and Aires Models

Seven Segment Display Menu

UNO Outdoor Board Series

Uno Pro Board - Service Menu - Continues

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	UOM
				PUnP	Pump Down	oFF	Pump down OFF			Select
				oHPS	OHP Status	on	Pump down ON			
						oHPL	OHP Line			Number
						oHPc	OHP Target Condensing Temp	(Value)		°C x 10
						oHcP⁽¹⁾	ODU Condensing Press value	(Value)		°C x 10
						oHPn	OHP Start Value	(Value)		°C x 10
				dC⁽¹⁾	Disable compressor	on	Enable	dSPb	Flashing	
						oFF	Disable (default)			
				ESU⁽¹⁾	Manual EXV setting for Oil Return	on	Enable Manual EXV Setting			
						oFF	Disable Manual EXV Setting			
				SoP⁽¹⁾	Sensor OutPut Values	SLo2	CO2 Sensor Value	--		
				r32S⁽¹⁾	R-32 Leak Sensor	SLFL	Gas Lower Flammability Limit (0-1000)			0.1%
						ALt	Alarm Threshold (0-1000)			0.1%
						St	Sensor Temperature (-400-1000)			0.1°C
						SH	Sensor Humidity (0-1000)			0.1%

⁽¹⁾ Only for VCC / Genesis Models

Seven Segment Display Menu

UNO Outdoor Board Series

04.02.02. Uno Pro Board - Settings Menu

Default Menu		Main Menu		SUB-MENU LEVEL 1		SUB-MENU LEVEL 2				
Display	Description	Display	Description	Display	Description	Display	Description	Value	Range	UOM
		SEt	Settings			F 06⁽¹⁾	VCC - Split	0072 / 85 / 96		Select
						F 07⁽¹⁾	VCC - Package	0072 / 85 / 96		Select
				cnF9	Configuration	08.00⁽²⁾	Aires	10 / 13 / 15 / 17		Select
						00.00⁽²⁾	Advance	. 13 / . 15 / . 17		Select
						11.00⁽²⁾	VCC 15 to 17	. 15 / . 17		Select
						rEF. ⁽¹⁾	Refrigerant	rEF.0: R-410A		
								rEF.1: R-32		
						Cr. ^(1,3)	Circuit Numbers	Cr.1 = Circuit-1		
								Cr.2 = Circuit-2		
								Cr.3 = Circuit-3		
								Cr.4 = Circuit-4		
						Cl.	Control Source	Cl.0⁽⁴⁾ = 3rd Party		
								Cl.1⁽⁴⁾ = Wall Control (default)		
								Cl.2⁽⁴⁾ = Basic BMS		
								Cl.3⁽⁴⁾ = Wall Control + Basic BMS		
								Cl.4⁽⁴⁾ = Advanced BMS		
				Cl.5	Control Source	Cl.0⁽⁴⁾	3rd Party			
						Cl.1⁽⁴⁾	Wall Control (default)			
						Cl.2⁽⁴⁾	Basic BMS			
						Cl.3⁽⁴⁾	Wall Control + Basic BMS			
						Cl.4⁽⁴⁾	Advanced BMS			
				idU5	Indoor Unit Settings	FP1	IDU Fan Low PWM setting	As per Table ⁽⁵⁾	20- 100	PWM
						FP2	IDU Fan Med PWM setting		20- 100	PWM
						FP3	IDU Fan High PWM setting		20- 100	PWM
						Fr1	IDU Fan Low RPM setting		1000-2000	RPM
						Fr2	IDU Fan Med RPM setting		1000-2000	RPM
						Fr3	IDU Fan High RPM setting		1000-2000	RPM
						FPd	IDU Fan Defrost PWM setting	0	0- 100	PWM
						FPe	IDU Reduced Airflow PWM setting	0	0- 100	PWM
						F.L	IDU Fan Filter Hours setting	200	100-990	Hours
						Econ	IDU Econ 0-10V Output setting	0	0- 100	VDC
						FnSE	Indoor Fan Setting	12	6-36	Pulse / Rev.

⁽¹⁾ Only for VCC CRV/PKV720T - CRV/PKV960T Models. Last two digits will be flashing. Select the Family by pressing **Menu** first then press **Enter** to accept. Then **0072** will display with the last three digits flashing. Select the Capacity by pressing **Menu** then press **Enter** to accept.

⁽²⁾ Only for Advance A and B Series, **PRV15-17AT/PRV15-17BT** and Aires Models. 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.

⁽³⁾ Circuit numbers depends on Family.

⁽⁴⁾ Last digit will be flashing. Select the Control Source by pressing **Menu** first then press **Enter** to accept.

⁽⁵⁾ Table No will be available in the Advance (R-32 Series) operation detail document.

Seven Segment Display Menu

UNO Outdoor Board Series

Uno Pro Board - Service Menu - Continues

Default Menu		Main Menu		SUB-MENU LEVEL 1		SUB-MENU LEVEL 2				
Display	Description	Display	Description	Display	Description	Display	Description	Value	Range	UOM
				SOFT ⁽²⁾	Enable Soft Start	no / YES	no = Soft Start not enabled (default) YES = Soft Start enabled			
				run	Run Indicator	no / YES	no = Indoor Fan and Compressor (default) YES = Compressor only			
				adf5	Outdoor fan setting	OdHS ⁽¹⁾	Outdoor fan high static		0-90	
						Pe ⁽²⁾	Pressure control	1	0-1	No
						Te ⁽²⁾	Temperature control	0	0-1	No
						CrS ⁽²⁾	Cooling rated speed.	As per Table ⁽³⁾	0-10	VDC
						CHS ⁽²⁾	Cooling max. speed.	As per Table ⁽³⁾	CrS-10	VDC
						CrS ⁽²⁾	Temp. restricted speed.	As per Table ⁽³⁾	6-(CrS-1)	VDC
						CrT1 ⁽²⁾	Cooling restricted temp.	As per Table ⁽³⁾	36-45	°C
						CrT2 ⁽²⁾	Cooling restricted temp.	As per Table ⁽³⁾	36-45	°C
						CrT3 ⁽²⁾	Cooling restricted temp.	As per Table ⁽³⁾	30-40	°C
						HrS ⁽²⁾	Heating rated speed.	As per Table ⁽³⁾	0-10	°C
						HHS ⁽²⁾	Heating max. speed.	As per Table ⁽³⁾	HrS-10	VDC
						HrS ⁽²⁾	Heating temp. restricted speed.	As per Table ⁽³⁾	6-(HrS-1)	VDC
						HrT1 ⁽²⁾	Heating restricted temp.	As per Table ⁽³⁾	5-10	°C
						HrT2 ⁽²⁾	Heating restricted temp.	As per Table ⁽³⁾	1-10	°C
						HrT3 ⁽²⁾	Heating restricted temp.	As per Table ⁽³⁾	1-10	°C
				QS	Quiet Mode	CCS	Cooling compressor speed	As per Table ⁽³⁾	3000-4200	RPM
						HCS	Heating compressor speed	As per Table ⁽³⁾	3000-4200	RPM
						CCt	Cooling mode critical temp. condition.	35	35-40	°C
						HCt	Heating mode critical temp. condition.	0	5-10	°C
				ECn ⁽¹⁾	Group Control	off	Group Control disabled (default)			
						on	Group Control enabled - may be changed only if Group Control is connected.			
				ECoE ⁽¹⁾	Economy Cycle Enable	oAdC	Outside air damper enable	1 = enable 0 = disable		
						oAdo	Outside air damper On Off			
						ECEa	Economiser control enable			
						EHCE	Humidity control enable			
						EHCo	Humidity control mode			
						EHCS	Humidity sensor source			
						CCE	CO ₂ control enable			

⁽¹⁾ Only for VCC CRV/PKV720T - CRV/PKV960T Modes

⁽²⁾ Only for Advance A and B Series, PRV15-17AT/PRV15-17BT and Aires Models

⁽³⁾ Table No will be available in the Advance (R-32 Series) operation detail document

Seven Segment Display Menu

UNO Outdoor Board Series

Uno Pro Board - Service Menu - Continues

Default Menu		Main Menu		SUB-MENU LEVEL 1		SUB-MENU LEVEL 2				
Display	Description	Display	Description	Display	Description	Display	Description	Value	Range	UOM
				ECa5 ⁽¹⁾	Economy Cycle Settings	EEd	Economiser temperature difference			
						EoLt	Economiser outside min temp			
						EoHt	Economiser outside max temp			
						EoLd	Economiser outside min damper			
						EoHd	Economiser outside max damper			
						EoHh	Economiser outside max humidity			
						EoHn	Economiser outside max moisture			
						EodP	Economiser outside max dew point			
						EoHE	Economiser outside max enthalpy			
						EEd	Economiser enthalpy delta			
						ELPL	Economiser co2 p1	600 (default)	200-800	
						EMPL	Economiser co2 p2	800 (default)	300-1200	
						ELdP	Economiser co2 damper p1	0 (default)	0-100	
						EMdP	Economiser co2 damper p2	10 (default)	0-100	
				dSH ⁽¹⁾	De-superheater	dSHE	De-superheater enable	0 - disable		
								1 - enable		
						dHdS	De-superheater disable-heating only	0 - disable		
								1 - enable		
						dCE	De-superheater critical temp.	55 (default)	200-800	
						dTE	De-superheater test enable	0 - disable		
								1 - enable		
				ECS ⁽¹⁾	Enable compressor staging	on	Enabled compressor staging (default)			
						off	Disabled compressor staging			
				RfC ⁽¹⁾	Indoor Fan K-Factor (default depends on capacity of unit)	425	96kW			
						425	85kW		300-700	
						545	72kW			
				HtSE ⁽¹⁾	Hot Start Settings	on	Hot Start enabled (for BMS only)			
						off	Hot Start disabled (default)			
				EEU ⁽²⁾	Electronic Expansion Valve	SEEU	Single EEV			
						dEEU	Double EEV			
				EEuE ⁽³⁾	Electronic Expansion Valve Type	EE I	UKV			
						EE2	UKV-SE (default)			

⁽¹⁾ Only for VCC CRV/PKV720T - CRV/PKV960T Models

⁽²⁾ Only for Advance A and B Series, PRV15-17AT/PRV15-17BT and Aires Models

⁽³⁾ Only for Advance A and B Series and PRV15-17AT/PRV15-17BT models

Seven Segment Display Menu

UNO Outdoor Board Series

Uno Pro Board - Service Menu - Continues

Default Menu		Main Menu		SUB-MENU LEVEL 1		SUB-MENU LEVEL 2				
Display	Description	Display	Description	Display	Description	Display	Description	Value	Range	UOM
				EE3 ⁽¹⁾	Condensate Flow Sensor Enable	EE3 ⁽³⁾	Sanhua EXV			
						on	Enable			
						off	Disable			
				cdFE ⁽¹⁾	Compressor Defrost Staging Disable	on	Enable			
						off	Disable			
				F1LS ⁽¹⁾	Filter Alarm Settings	F1L	Air Filter Alarm	0: Disable		
								1: Based on Timer (Default for Split)		
								2: Based on Timer (Default for Package)		
				SAT ⁽¹⁾	Supply Air Temperature	ASAT	Active Supply Temperature	0: Return Air Temperature Control		
								1: Supply Air Temperature Control		
						CTP	Cooling Target Temperature		Not implemented. Only menu option available, no min/max	
						HLP	Heating Target Temperature			
						SAT	Supply Air Temperature			
						RSS	RS1 Wired Sensor Source	0: Internal		
								1: BMS		
						RSF	RS1 Wired Sensor Source	0: Room Air		
								1: Supply Air		
				REFC ⁽¹⁾	Refrigerant Charge	H1L0	Kilograms		0 - 63	
						GrAn	Grams		0 - 999	
				vFE ⁽¹⁾	Variable Fan Technology	vde	Active Variable Fan Technology	0: Normal Operation		
								1: Airflow Control		

⁽¹⁾ Only for VCC CRV/PKV720T - CRV/PKV960T Models

Seven Segment Display Menu

UNO Outdoor Board Series

04.03. Uno Jr Board

04.03.01. Uno Jr Board - Display and Service Menu

Main Menu		SUB-MENU LEVEL 1		SUB-MENU LEVEL 2		SUB-MENU LEVEL 3					
Display	Description	Display	Description	Display	Description	Display	Description	Default	Range	UOM	
d5	Display Menu	Err	Comp Req Demand					0	0-100	%	
		ErrF	Comp Running RPM/PWM					0	--	RPM / PWM	
		EEOP	EEV Opening %					0	0-100	%	
		PrS	Suction Pressure					0	--	kPa	
		Prd	Discharge Pressure					0	--	kPa	
		SSH	Saturated Superheat					--	--	°K	
SEr	Service Menu	Err	Error Menu	EH 5	Error history	Err1	Error-1 (Latest Error)	--	E01-E55	As per Default Display Table (Section 02.)	
						Err2	Error-2	--	E01-E55		
						Err3 to	Error-3	--	E01-E55		
							--	E01-E55			
				Err 15	Error-15 (maximum number of entries)	--	E01-E55				
		ECLR	Error history clear	no/	Delete Error History	--	--				
		dLY	EnCL	Cancels the current Must On/Must Off timers							
		SYS	System Status	oPC	Demand Oper. Mode	oFF	System Off or System Controller Off, waiting for capacity demand				
						CoOL	Cooling Mode				
						HEAT	Heating Mode				
				oDS	ODB Internal State	0	Standby				
						1	Cooling				
						2	Heating				
						3	Start Cooling				
						4	Start Heating				
						5	Stopping				
						6	Pre defrost				
						7	Defrosting				
						8	Post defrost				
						10	Pump Down				
						SS	Booting				
				oDS	Outdoor Status	RCO	Cool Thermostat Off				
						HPD	Heat Thermostat Off				
						RC4	Cool Must Off				
HP4	Heat Must Off										

NOTE: Shaded boxes are not applicable to Classic 2 Models.

Seven Segment Display Menu

UNO Outdoor Board Series

Uno Jr Board - Display and Service Menu - Continues

Main Menu		SUB-MENU LEVEL 1		SUB-MENU LEVEL 2		SUB-MENU LEVEL 3		Default	Range	UOM
Display	Description	Display	Description	Display	Description	Display	Description			
SER	Service Menu	CoP	Compressor Menu	CrD	Comp Request Demand			0	0 to 100	%
				CrF	Comp Running RPM/PWM			0	15 to 100	RPM / PWM
				d t	Drive temp			--	-60 to 100	°C
				SU	Supply voltage			0	0 to 1000	V
				SC	Supply Current			0.0	0 to 100	Amp
				CSF	Override Comp Speed			0	0-100	%
		EEV	Electronic Expansion Valve Menu	EEoP	EEV Opening %			0	0 to 100	%
				SSH	Saturated Superheat			--	0 to 1000	°K
				tSSH	Target Suction SH			1 0.0	1 to 1000	°K
				SSt	Sat Suction temp			0.0	-2000 to 2000	°C
				dSSH	Disch. SH Temp.			0.0	-2000 to 2000	°C
				CSPt	Suction Pipe Temp.			--	-2000 to 2000	°C
		tEr	Temperature Menu	CSPt	Compressor Suction Pipe temperature			--	-2000 to 2000	°C
				d t	Comp Discharge temperature			--	-60 to 200	°C
				A t	Ambient temp			--	-60 to 120	°C
				od t	ODU coil temp			--	-40 to 120	°C
				L 9 t	Liquid Heat Temperature			--		°C
				L 9 t	Liquid Cool Temperature			--		°C
		Pr	Pressure Menu	PrS	Pressure Suction			--	11 to 6000	kPa
				Prd	Pressure Discharge			--	0 to 3	kPa
		odF	ODU Fan	odFP	ODU Fan Speed	1	Low	--		
						2	Medium			
						3	High			
		dEF	Defrost Menu	dEFP	Defrost Parameters	od t	ODU coil temp	--	-40 to 120	°C
						d L	De-ice Last accumulation time	0.00		min
						d h	De-ice hold time	30.00		min
						d c	De-ice confirm time	0.00	0.00 to 3.00	min
						d h t	Defrost hold time	30	20 & 30	min
				FdEF	Forced De-ice	on / off	De-ice On/Off			Select

NOTE: Shaded boxes are not applicable to Classic 2 Models.

Seven Segment Display Menu

UNO Outdoor Board Series

Uno Jr Board - Display and Service Menu - Continues

Main Menu		SUB-MENU LEVEL 1		SUB-MENU LEVEL 2		SUB-MENU LEVEL 3					
Display	Description	Display	Description	Display	Description	Display	Description	Default	Range	UOM	
		ID	IDU Status	IDT	ID Coil Temperature			--	--	°C	
				IDFP	ID Fan Running PWM			--	--	%	
				IDFR	ID Fan Running RPM			--	--	RPM	
				IGG	ID-OD Good Packet			--	0 to 9999		
				IGB	ID-OD Bad Packet			--	1 to 9999		
				ICL	Clear above 2 Status. done is displayed for a few seconds						
		SV	Outdoor board software version								
		TEST	Test Mode	OFF	End test						
				COOL	Test outdoor unit in Cooling operation						
				HEAT	Test outdoor unit in Heating operation						
		PUMP	Pump Down								

NOTE: Shaded boxes are not applicable to Classic 2 Models.

Seven Segment Display Menu

UNO Outdoor Board Series

04.03.02. Uno Jr Board - Settings Menu

Main Menu		SUB-MENU LEVEL 1		SUB-MENU LEVEL 2		SUB-MENU LEVEL 3		Default	Range	UOM
Display	Description	Display	Description	Display	Description	Display	Description			
SEt	Settings	CoPS	Compressor Settings	F ⁽¹⁾	Fixed Speed			F ⁽¹⁾		Select
				d ⁽¹⁾	Digital					
				I ⁽¹⁾	Inverter					
		CtrS	Control Sorce	0	3rd Party			I	0 to 5	
				1	Wall Controller					
				2	Basic BMS					
				3	Wall Controller + Basic BMS					
				4	Advanced BMS					
				5	Add-on Cooling					
		CSEn	Coil Sensor	no	Disable Outdoor Coil Sensor			YES		Select
				YES	Enable Outdoor Coil Sensor					
		bAud	Baud Rate	4800	AMIB			9600		Select
				9600	Inzone/CMIB					
		dLS	Indoor Unit Settings	FP1	Low PWM			0	20 to 100	%
				FP2	Med PWM			0	20 to 100	%
				FP3	High PWM			0	20 to 100	%
				Fr1	Low RPM			0	1000 to 2000	RPM
				Fr2	MEd RPM			0	1000 to 2000	RPM
				Fr3	High RPM			0	1000 to 2000	RPM
				FPd	ID Fan Defrost PWM			0	0 to 100	%
				FPc	Reduce Fan A/F PWM			0	0 to 100	%
				FIL	Filter Hours			0	200 to 9900	hrs
				Econ	Economy Cyle Output			0	0 to 100	%
				FnSE	Number of fan sensor poles	12	Regal	0	6 to 36	
						36	Elgee			
		Soft	Soft Start							
		Run	Run Indicator Setting	no	Run Relay only set when compressor is On			no		Select
				YES	Run Relay set when IDU fan is on or when compressor On					
		CCH	Crank case heater	no	Disable Crank case heater			no		Select
				YES	Enable Crank case heater					
		odFS	Outdoor Fan Start-up Speed	H	High Speed			H		Select
				L	Low Speed					

⁽¹⁾ Displays the capacity of the unit.

NOTE: Shaded boxes are not applicable to Classic 2 Models.

05. 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	Start Cooling (flashing)
CoOL	Status	Unit Cooling Mode (not flashing)
HEAt	Status	Start Heating (flashing)
HEAt	Status	Unit Heating Mode or Indoor coil pre-heat after defrost (not flashing)
oILr	Status	Oil return operation
oHP	Status	Unit derating - Overheat Protection Mode
dHP	Status	Unit derating - Discharge Temperature Protection Mode
cPP	Status	Unit derating - Condenser Pressure Protection Mode
AFP	Status	Anti Freeze Protection Mode (not flashing)
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 E999	Error	Error Codes

06. SYSTEM STATUS TABLE

oFS	Outdoor Status
RC0	Unit is in cooling mode but indoor demand is 0%.
RC4	Unit is in the cooling must-off timer of 3 min.
HP0	Unit is in heating mode but indoor demand is 0%.
HP4	Unit is in the heating must-off timer of 3 min.
----	dFS Status: No Fold back Error
CCF	dFS Status: Compressor Current Foldback
PLF	dFS Status: Power Module Temperature Foldback
ICF	dFS Status: AC Input Current Foldback

oFS	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

ERROR CODES

Complete list of Error Codes may be accessed by clicking this link [ERROR CODES](#)

