

Emerson Electronic Unit Controller (EUC) Settings

Label	Description	Range	Emerson Factory Default	Pro Factory Setting	Field Setting
<b>Default Display Value</b>					
	Current Suction Pressure (PSIG)				
<b>Adjustable In Programming Menu</b>					
CoI	Compressor cut-in (PSIG)	CoU - U5	25	20	
CoU	Compressor cut-out (PSIG)	L5 - CoI	15	5	
<b>Adjustable From Advanced Options Menu</b>					
od5	Outputs delay at start up (seconds) (Only adjustable on single phase scroll units)	2 - 255	2 or 4	4	
Rc	Anti-short cycle delay (Minimum time between compressor off then on) (seconds)	6-900	6	6	
CoN	Compressor ON time with faulty probe (minutes)	0 - 255	5	5	
CoF	Compressor OFF time with faulty probe (minutes)	0 - 255	5	5	
PiF	Suction Pressure Transducer Offset (PSI)	- 120 - 120	0	0	
bnP	Bump start enabled	no - YES	YES	YES	
nPS	Number of activations of DLT alarm in a hour to lock compressor (Units with discharge line temperature protection only)	0 - 15; 0 = Always automatic restart	4	4	
HPn	UL safety digital input activation before compressor lock (Units with fixed high pressure controls only)	0 - 15; 0 = Always automatic restart	5	5	
SF1	Fan 1 Cut-out (°F) (Fan cycling units only)	- 40 - SF2	70	65 (ELAB option set to -40)	
HF1	Fan 1 differential (°F) (Fan cycling units only)	1 - 100	10	10	
SF2	Fan 2 Cut-out (°F) (Fan cycling units only)	SF1 - 230	85	80 (ELAB option set to -40)	
HF2	Fan 2 differential (°F) (Fan cycling units only)	1 - 100	15	15	
rSA	Reset Alarm Counters (HP,dL†, and Loc)				
rCR	Reset Compressor Starts Counters				
rCH	Reset Compressor Run Hours Counters				
rFH	Reset Fan Run Hours Counters (Fan cycling units only)				
LAP	Pressure to end time	- 15 to CoU			
Ln0	Minimum on time (minutes)	0 to 15			

Factory Set Parameters

Label	Description	Range	Emerson Factory Default	Pro Factory Setting	Field Setting
L5	Minimum set point (PSIG)	- 7 - U5	- 7 or 5		
U5	Maximum set point (PSIG)	L5 - 135	135	135	
ono	Minimum time between two compressor starts (minutes)	0 - 15	0	0	
nFR	Number of fans on during probe fault	0 - 2	2	2	
Un†	Measurement unit for pressure: PSIG, bar, kPA	PSI, bAr, kPa	PSI	PSI	
CF	Measurement unit for temperature	C or F	F	F	
on	Bump Start Compressor on time (seconds)	1 - 15	2	2	
oFF	Bump Start Compressor off time (seconds)	1 - 15	5	5	
nJb	Number of cycles during bump start	1 - 15	3	3	
bEn	Compressor stop time for next bump start (hours)	1.0 - 23.5	4.0	4	
doF	DLT alarm temperature to stop compressor (°F)	don - 302	220	220	
don	DLT temperature for compressor restart (°F)	-58 - doF	170	170	
Rld	DLT stop compressor delay (seconds)	0 - 255	0 - 5	0 - 5	
dLF	Minimum time of compressor off with dLL alarm (minutes)	0 - 15	0	0	
RU2	Cut-in for Condenser Temperature/Pressure alarm (°F)	RH2 - 230	150	150	
RH2	Cut-out for high Condenser Temperature/Pressure alarm (°F)	-40 - RU2	140	140	
Rd2	High condenser temperature alarm delay (minutes)	0 - 255	0	0	
HPF	Minimum off time after a High-Pressure Trip (minutes)	0 - 15	5	5	
P1i	Start scale for probe 1 (PSIG)	-15 to P1E	-15	-15	
P1E	End scale for probe 1 (PSIG)	P1i to 999	135	135	
P1d	P1 alarm display delay, with P1C=0-5V (min)	0 - 100	0	0	
P2P	Probe 2 presence	yES, n0		n0	
P2C	Probe 2 configuration	n†C, 0-5			
P2i	Start scale for probe 2 (PSIG)	-15 to P2E	-15	-15	
P2E	End scale for probe 2 (PSIG)	P2i to 999	485	485	
P3C	Probe 3 configuration	nU, dL†, CPr			
Rb2	High condenser temperature alarm with compressor off	yES, n0			
oR1	AUX1 configuration	Fan, Fn2, RLR			
oR2	AUX2 configuration	Fan, Fn2, RLR			

NOTES:

- [1] Controller Configuration: Electronic Unit Cooler (EUC), with Condenser Temperature Sensor and Suction Pressure Transducer, with Fan Cycling
- [2] These settings to be used in conjunction with the Emerson Application Engineering Bulletin AE8-1376, latest version
- [3] Customer may modify settings for their particular system requirements at their own risk, Pro Refrigeration Inc not responsible for modifications made by others