PRO Refrigeration, Inc.
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TITLE: Emerson EUC Controller Settings
FILENAME: EUC-100-GENERIC
ORIGINAL ISSUE DATE: 09-26-19
REVISION/DATE: A/11-15-02

Emerson Electronic Unit Controller (EUC) Settings

Label	Description	Range	Emerson Factory Default	Pro Factory Setting	Field Setting
	Default Display Value				
	Current Suction Pressure (PSIG)				
	Adjustable In Programming Menu				
C in	Compressor cut-in (PSIG)	CoU - US	25	20	
CoU	Compressor cut-out (PSIG)	LS - C in	15	5	
	Adjustable From Advanced Options Menu				
odS	Outputs delay at start up (seconds) (Only adjustable on single phase scroll units)	2 - 255	2 or 4	4	
AC	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	
P1F	Suction Pressure Transducer Offset (PSI)	-120 - 120	0	0	
bnP	Bump start enabled	no - YES	no	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	5	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,dLt, and Loc)				
rCA	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			
LnO	Minimum on time (minutes)	0 to 15			

Factory Set Parameters

Label	Description	Range	Emerson Factory Default	Pro Factory Setting	Field Setting
LS	Minimum set point (PSIG)	-7 - US	-7 or 5		
US	Maximum set point (PSIG)	LS - 135	135	135	
ono	Minimum time between two compressor starts (minutes)	0 - 15	0	0	
nFA	Number of fans on during probe fault	0 - 2	2	2	
Unt	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	
nUb	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	
dLd	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	
AU2	Cut-in for Condenser Temperature/Pressure alarm (°F)	AH2 - 230	150	150	
AH2	Cut-out for high Condenser Temperature/Pressure alarm (°F)	-40 - AU2	140	140	
Ad2	High condenser temperature alarm delay (minutes)	0 - 255	0	0	
HPF	Minimum off time after a High-Pressure Trip (minutes)	0 - 15	5	5	
P1 i	Start scale for probe 1 (PSIG)	-15 to P1E	-15	-15	
P1E	End scale for probe 1 (PSIG)	P1 i to 999	135	135	
P1d	P1 alarm display delay, with P1C=0-5V (min)	0 - 100	0	0	
P2P	Probe 2 presence	YES, nO		YES	
P2C	Probe 2 configuration	ntC, 0-5		0-5	
P2 i	Start scale for probe 2 (PSIG)	-15 to P2E	-15	-15	
P2E	End scale for probe 2 (PSIG)	P2 i to 999	485	485	
P3C	Probe 3 configuration	nU, dLt, CPR			
Ab2	High condenser temperature alarm with compressor off	YES, nO			
oA1	AUX1 configuration	Fan, Fn2, ALr			
oA2	AUX 2 configuration	Fan, Fn2, ALr			

NOTES:

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[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