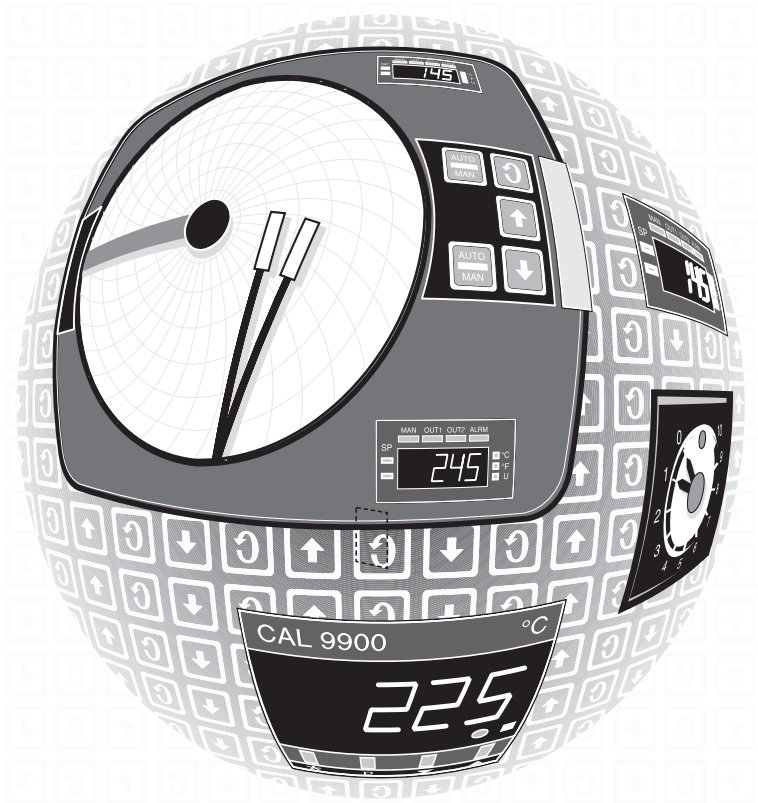
Visit www.clevelandrange.com to locate a service or sales representative in your area.

CLEVELAND

Digital & Analog Controllers
(used on Cleveland Range Kettles)

Installation, Operation & Service

This manual is updated as new information and models are released. Visit our website for the latest manual.



For your future reference.

Model # _____

Serial # _____

Read the manual thoroughly. Improper installation, operation or maintenance can cause property damage, injury or death.

WELBILT®

Part # - KE004068 -2 B July 2020

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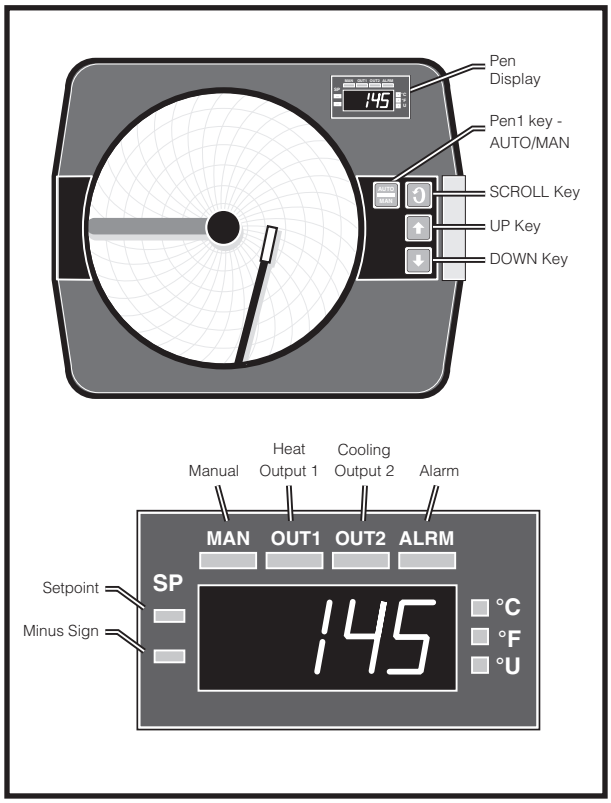
OPERATING INSTRUCTIONS

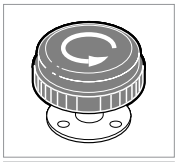


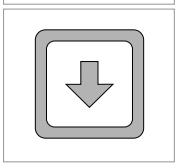
MRC 7000 Controls Drawing (1 pen)

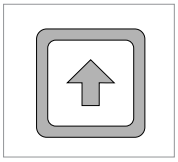
POWER

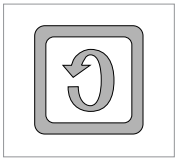
HEAT AUTO COOL

ACTIVE/BYPASS







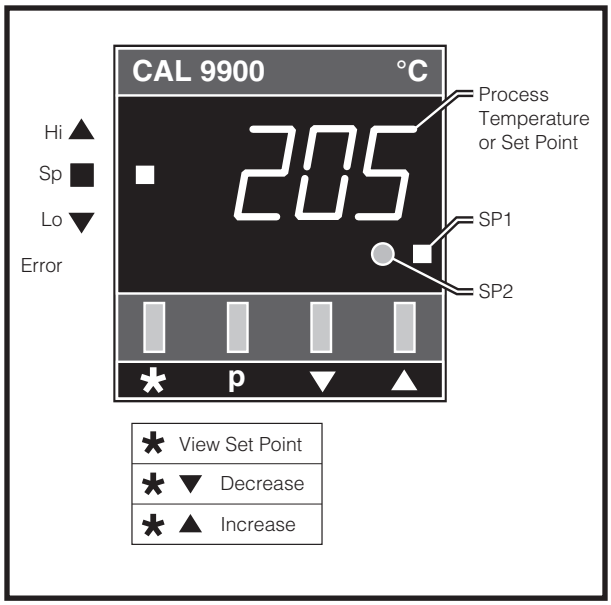


MIXER KETTLE OPERATION USING MRC 7000 (1 PEN)

Note: Temperature probe on mixer bridge or on kettle surface must be covered with a minimum of three inches of product to function correctly.

1. Turn MAIN POWER switch to "ON".
2. Turn HEAT/COOL switch to "AUTO".
3. Turn ACTIVE/BYPASS switch to "ACTIVE".
4. Open steam valve completely.
5. Push and hold key "⇩" or "⇧" until desired temperature is set.
6. To ***start***: push function key "↻" until "*CtrL*" is displayed.
7. Push down key "⇩".
8. To ***stop***: push function key "↻" until "*OFF*" is displayed.
9. Push down key "⇩".

NOTE: For twin kettles, the MRC 7000 will control the kettle the mixer is in.



CAL 9900 Controls Drawing

MIXER KETTLE OPERATION USING CAL 9900

Note: Temperature probe on mixer must be covered with a minimum of three inches of product to function correctly.

1. Turn mixer MAIN POWER switch to "ON" (CAL 9900 lights up and displays present temperatures).
2. Turn HEAT/COOL switch to “OFF/AUTO".
3. Turn ACTIVE/BYPASS switch to "BYPASS". The unit should not be heating or cooling at this point.
4. Push (✱) button on CAL 9900 to read set point temperature. (This is the desired product temperature).
5. To change set point temperature push and hold (✱) button while pushing (▲) or (▼) button. New set point is determined when (✱) button is released.
6. Add product to kettle.

7. Turn ACTIVE/BYPASS switch to “ACTIVE”. If the set point temperature is higher than the product temperature, the kettle will start heating.

Note: For twin kettles, the CAL 9900 will control the kettle the mixer is in.

Changing Functions and Options

The controller has been preset at the factory and should operate satisfactory. If you wish to fine tune the unit for your specific application consult the CAL 990O Installation and Operation Manual. Following is a simplified procedure for changing parameters.

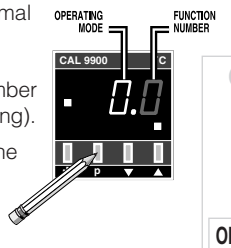
1. Mixer MAIN POWER switch in the "ON" position.

2. ACTIVE/BYPASS switch in "BYPASS" position.

3. Press button labeled (**p**). The display should show a number with a decimal place in it.

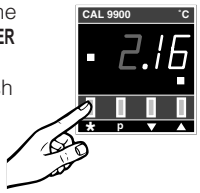
   Left of the decimal place is the **OPERATING MODE** setting (this number should be flashing).

   To the right is the **FUNCTION NUMBER**.



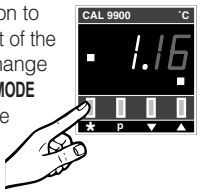
4. To change the **OPERATING MODE** setting push the (▲) or (▼) buttons.

5. To move to the **FUNCTION NUMBER** (right of the decimal) push (✱) button.

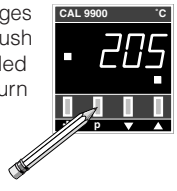


6. That number should now be flashing. To move to another **FUNCTION NUMBER** push the (▲) or (▼) buttons.

7. Push (✱) button to move to the left of the decimal. To change the **OPERATING MODE** setting push the (▲) or (▼) buttons.



8. When your changes are complete push the button labeled (**p**) again to return to the Process Temperature.



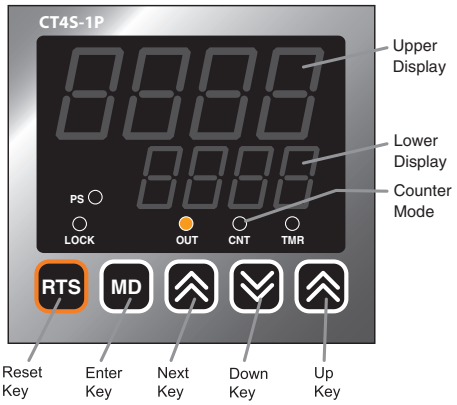
Cleveland Range Factory Settings

OPERATING MODE	FUNCTION NUMBER
0	**0**
0	**1**
5	**2**
0	**3**
4 steam 5 electric	**4**
0	**5**
5	**6**
0	**7**
0	**8**
1	**9**
0	**10**
0	**11**
0	**12**
0	**13**
0	**14**
0	**15**
9	**16**
0	**17**
0	**18**
1	**19**
2 T.A.P 0	**20**
0	**21**
0 = °C 1 = °F	**22**
Software Version	**23**
-- --	**24**
0	**25**
-- --	**26**

DIGITAL WATER METER OPERATING INSTRUCTIONS

USED AFTER APRIL 2019

Note: The digital counter has been preset at the factory and should operate satisfactory. If installing a new counter (or the configuration settings to your existing digital counter become corrupted) you must configure the digital counter as shown below (***Configuring a Digital Counter***) prior to operation.



POWER

1. Turn POWER switch "ON".

2. Switch water to "**Hot**" or "**Cold**". (If option available)

3. To advance in setting value change mode, press " ≪ " key until the digit you want to change is flashing in the lower display window. Then use the " ⩓ " or " ⩔ " key to change the value of the flashing digit.

When all digits are selected (lower display window) for the required quantity of water press the "**MD**" key to complete the change of setting value and return to run mode. The selection will not be registered in the memory if "**MD**" is not pressed.

4. Locate delivery spout over desired kettle.

5. Turn START switch to "RESET". Delivery will start at "0" and stop at preset volume.

6. To stop delivery at any time, turn INTERRUPT switch to " • ".

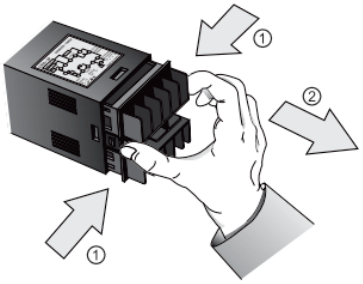
7. To complete delivery after interrupting, turn START switch to "CONTINUE".

8. Push "**RST**" button to rest counter to "0" without starting delivery.

9. Select Hot or Cold water if this option is available.

Configuring a Digital Counter

This procedure is only necessary when installing a replacement counter or settings to existing counter become corrupted.



1. The power must be off.

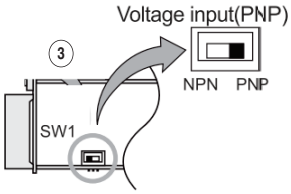
2. Squeeze toward ① and pull toward ② as illustrated. (CTS/CTY Series)

3. Select input logic by using input logic switch (SW1) inside Counter/Timer.

4. Push case in opposite direction of ②.

5. Turn power on.

Note: Turn OFF the power before changing input logic. (PNP/NPN)



Editing the Parameter Settings

After changing the switch position (see above instructions - ***Configuring a Digital Counter***), edit the parameters as follows:

Note: The PS indicator light will turn off while the counter is in configuration mode.

1. Press and hold "**MD**" key for 3 seconds to enter parameter configuration mode. Use "**MD**" key to step through the parameters.

2. When the desired parameter description is shown in the upper display (see ***Parameters Chart***), press ⩓ or ⩔ key to change the paramater.

3. When the desired setting is shown, press the "**MD**" key to move to the next parameter.

4. To exit configuration mode, press and hold "**MD**" key for 3 seconds.

Parameters Chart

Use **MD** key to step through "**Parameters**".

MD

Use ⩓ or ⩔ key to step to the "**Required Setting**".

or

Parameter Description	Parameter Sign	Required Setting
Counter/Timer	[C-t]	CoUn
Input Mode	[I n]	UP
Output Mode	[oUt.n]	F
Max. Counting Speed	[CPS]	30
Decimal Point	[dP]	----
Min. Reset Time	[rSt]	20
Input Logic	[SI G]	PnP
Prescale Decimal Point	[SC.dP]	---.-
Prescale Value	[SCL]	001.0
Start Point Value	[Strt]	0000
Memory Protection	[dAtA]	CLr
Key Lock	[LoCK]	L.oFF

PROGRAMMING INSTRUCTIONS

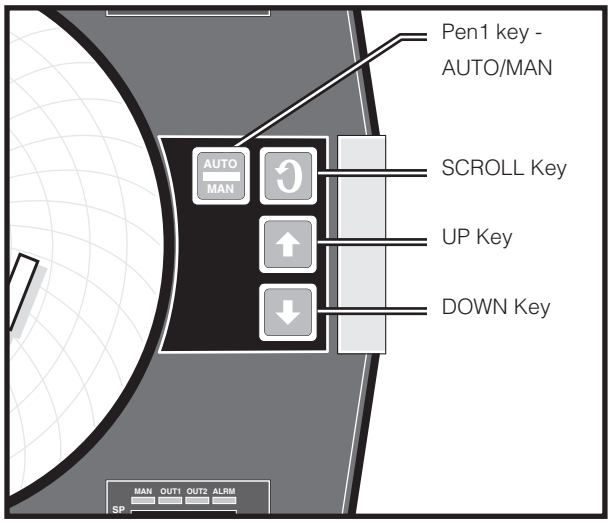
MRC 7000 ENABLE MODE PROCEDURE (1PEN)

Reference page #36 in the MRC 7000 Installation, Wiring, Operation Manual, Form 2877, Edition 7, 1998 Revision.

To prevent tampering, your programmer comes from the factory with the programming modes turned "***oFF***".

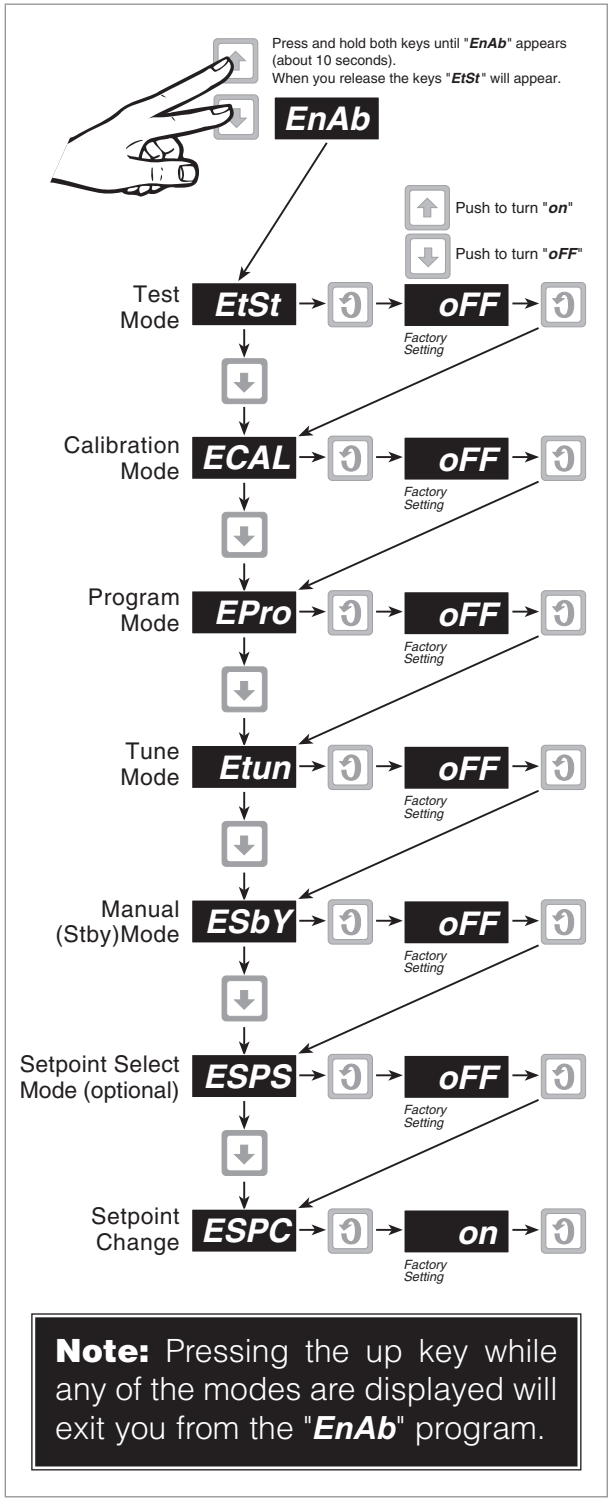
If adjustment is required then the modes must be turned "***ON***" before they are accessible. We recommend that when the adjustments have been completed you turn off the programming modes again.

To turn on the mode required perform the following steps:



CAL 9900 Controls Drawing

1. Press the scroll key "↻" until "***CtrL***" is displayed.
2. Press and hold the "↑" and "↓" keys at the same time. All the display lamps will light.
3. After 10 seconds the display lights will go out and "***EnAb***" will be displayed. Release the "↑" and "↓" keys. "***EtSt***" will appear.
4. Repeatedly press the "↓" key until the desired mode is displayed.
5. Press the scroll key "↻" once to display the mode's setting ("***ON***" or "***oFF***").
6. Press the "↑" key to turn the desired mode "***ON***".
7. To turn desired mode "***oFF***" follow steps 1-5 and then press "↓" key.



MRC 7000 Enable Mode Flow Chart

MRC 7000 SOFTWARE REFERENCE/RECORD SHEET

Use this sheet to record any changes to the Program, Tune or Enable Modes.

PROGRAM MODE Pen 1				Unit
inPS			rLyA	
iCor			rLyb	
out1			rLyC	
o1ul			rLyd	
o1LL			rLyE	
out2			rLyF	
o2uL			rLyg	
o2LL			rLyh	
AL1			CurA	
AL2			Curb	
diSP			CurC	
dPoS			Curd	
Euu			CoAr	
EuL			Cobr	
HyCo			CoCr	
HyAo			Codr	
rSP			Crt	
rSPu			Coo	
rSPL			CCon	
SPuL			CbS	
SPLL			CAd1	
AtFr			CAd2	
Prnd				
dFF				
PFF				
Pout				
Pou				
PoL				
Cru				
CrL				
P1EC				
P2EC				
PAEC				

TUNE MODE Pen 1		
SoP		
PAL1		
dAL1		
bAL1		
PAL2		
dAL2		
bAL2		
Pb1		
Pb2		
rSEt		
ArSt		
rAtE		
Ct1		
Ct2		
SEnS		
FoP		

ENABLE MODE	
EtSt	
ECAL	
EPro	
Etun	
ESby	
ESPS	
ESPC	

MRC 7000 GENERAL PROGRAMMING INSTRUCTIONS (1 PEN)

The following instructions are of a general nature. Refer to the MRC 7000 Manual for complete instructions and explanations.

1. Install the chart recorder according to the wiring diagram.
2. Check and change the pin jumpers inside the chart recorder.
3. Set variables in controller by changing parameters in the Program mode (***Prog***) and the Tune mode (***tunE***).
4. Calibrate the pen using the Calibration mode (***CAL***). Use only (***CAL9***).
5. Use the Enable mode (***EnAb***) to turn off the rogram mode (***EPro***), Calibration mode (***ECAL***), Tune mode (***Etun***), Manual (***Stby***) mode (***Esby***). The off setting means the mode is activated but cannot be accidentally changed.
6. See page 45 (MRC 7000 Installation, Wiring, Operation Manual) - Changing Charts and Changing Pens.

Modes

Use the scroll key to move through the modes until the desired mode is reached. See Key Pad Controls pages 23-24 (MRC 7000 Manual). If the mode required does not show up on the digital display then the Enable mode will have to be accessed and the mode required turned on. See page 36 (MRC 7000 Manual- Enable Mode Configuration Procedure) or this manual.

Program Mode (Prog)

Following is a list of the factory settings. A brief description has been provided on items you may wish to change. See page 28-32 (MRC 7000 Manual) for further information.

Program Mode		
Display Code	**Setting**	**Comments**
inPS	20 21	RTD °C RTD °F
iCor	0	
out1	4	
o1ul	100	
o1LL	0	
out2	1	For Steam With Cooling 0 for Electric and Gas
o2uL	100	Not Shown When out2 set at 1
o2LL	0	Not Shown When out2 set at 1
AL1	0	
AL2	0	
diSP	2	Display set to read process value and set point
dPos	0	Display set at zero decimal position
Euu	Factory Setting	Not Shown
EuL	Factory Setting	Not Shown
HyCo	5	
HyAo	3	
rSP	0	Not Shown
rSPu	Factory Setting	Not Shown
rSPL	0	Not Shown
SPuL	250 °F 120 °C	Setpoint Upper Limit
SPLL	30 °F 0 °C	Setpoint Lower Limit
AtFr	0	
PrnD	0	Process Value
dFF	1	
PFF	1	
Pout	0	
Pou	2000	Not Shown
PoL	0	Not Shown
Cru	230 °F 100 °C	Chart Range Upper Level
CrL	30 °F 0 °C	Chart Range Lower Level

Program Mode		
Display Code	**Setting**	**Comments**
P1EC	0	
P2EC	0	
PAEC	1	On error Pen goes to 100% of Chart
rLyA	5	Relay A Heat is assigned to Output 1
rLyb	6	Relay B Cooling is assigned to Output 2
rLyC	0	
rLyd	0	
rLyE	0	
rLyF	0	
rLyg	0	
rLyh	0	
CurA	0	
CurB	0	
CurC	0	
Curd	0	
CoAr	1	
Cobr	1	
CoCr	1	
Codr	1	
Crt	24	Chart Rotation Time in Hours
PAPu	0	
Coo	0	
Ccon	3	
CbS	6	
CAd1	1	
CAd2	2	

Tune Mode (tunE)

Following is a list of the factory settings. A brief description has been provided on items you may wish to change. See page 33-35 (MRC 7000 Manual) for further information.

Tune Mode		
Display Code	**Setting**	**Comments**
SoP	10	cooling comes on when temperature is exceeded by this amount
PAL1	0	
dAL1	0	
bAL1	1	
PAL2	0	
dAL2	0	
bAL2	1	
Pb1	5 °C 10 °F	15 For HA Gas proportional band for output 1, heating
Pb2	5 °C 10 °F	Not Shown When out2 set at 1 proportional band for output 2, cooling
rSEt	0	manual reset
ArSt	0	automatic reset
rAtE	0	rate
Ct1	30	90 For gas HA cycle time for output 1, heating - DO NOT DECREASE
Ct2	30	cycle time for output 2, heating - DO NOT DECREASE
SEnS	1	
FoP	0	

Calibration Mode (CAL)

The chart recorder is a sensitive instrument that requires periodic maintenance and recalibration.

Temperature, humidity, vibrations, and handling all contribute to causing errors in temperature reading. Regular inspections a recalibration by a trained service technician with the proper equipment will keep the unit accurate and reliable.

MRC 7000 will calibrate the pen to the chart. This is the only calibration and you can do it without training and equipment. See page 46-49 (MRC 7000 Manual) for instructions.

Enable Mode (EnAb)

The Enable mode allows you to lock out the other modes you do not wish to use or be tampered with. See page 36 (MRC 7000 Manual) for operating instructions.

Enable Mode		
Display Code	**Setting**	**Comments**
EtSt	Off	test mode
ECAL	Off	calibration mode
Epro	Off	program mode
Etun	Off	tune mode
Esby	Off	manual mode
ESPC	On	setpoint change

Jumpers on Process Board

Open the front panel using a screw driver and check the jumpers on the processor board for correct positioning. See page 62 (MRC 7000 Manual) for board layout.

JUMPER	FUNCTION	POSITION
JU1	enable mode	unlocked
JU4	input	T/C, mv, RTD
JU6	RTD input	RTD

HORIZONTAL MIXER KETTLES - AC INVERTER PROGRAMMING INSTRUCTIONS

The AC Inverters come wired for external use and must be installed for use in a side panel control (See Wiring Diagram.). Refer to owners manual for complete instructions and explanations.

After installation is complete the inverter must be reprogrammed to Cleveland's modifications of the factory settings. All modifications are achieved in Access Level 2.

1. Turn agitator power on.
2. Press the PROGram and SHIFT keys simultaneously to reach Access Level 2. The display display will now read:
3. Use the UP/DOWN arrow keys to select the program parameter for change.
4. Press the SHIFT key. The program number will blink indicating that that the data value may be changed.
5. Use the UP/DOWN arrow keys to select the new data code.
6. Press the ENTER key. The display will indicate **STORED** for one second, then revert to the normal parameter display.
7. Press the PROGram key to exit the programming mode or the UP/DOWN keys to select an new parameter for change.

PROGRAM CODE SUMMARY:

No.		Parameter Name	Options	Default	User Setting	SeePage
1	X	Model Number	Model Dependent	Read-only		52
2	X	Software Rev	0.00-99.99	Read-only		52
3	X	Rated Current	0.0-200.0 A	Read-only		52
5	X	Serial No. 1	0-65535	Read-only		52
6	X	Serial No. 2	0-65535	Read-only		52
10	X					
25	X					
40	X	3rd Fault	n/a	Read-only		53
55	X	2nd Fault	n/a	Read-only		53
70	X	1st Fault	n/a	Read-only		53
102	X	Output Freq	0.0-400.0 Hz	Read-only		53
103	X	Output Voltage	0-600 V	Read-only		53
104	X	Output Current	0.0-200.0 A	Read-only		53
105	X	Drive Load	-202	Read-only		54
106	X	Load Torque	-202	Read-only		54
107	X	Drive Temp	-20.0-200.0 'C	Read-only		54
108	X	Total Run Time	0.0-6553.5 h	Read-only		54
109	X	Power On Hours	0-65535 h	Read-only		54
110	X	Stator Freq	0.0-400.0 Hz	Read-only		54
111	X	DC Bus Voltage	0 -1000 Vdc	Read-only		54
115	X	Drive Power Out	0.0-200.0%	Read-only		54
201	**X**	**Input mode**	**n/a**	**Local-only**	**Remote Only**	**55**
202	X	Rev Enable	n/a	Forward		55
203	X	Stop Key Remote	n/a	Coast		56
204	X	Ref Select	n/a	Vin 1		56
205	X	Vnt Config	n/a	0-10V		57
206	X	Vint Offset	0.0% to 100.0 %	0.00%		57
207	X	Vn1 Span	10.0% to 200.0%	100.00%		57
208	X	Cin Config	n/a	0-20mA 50		58
209	X	Cin Offset	0.0% to 100.0%	0.00%		58
210	X	Cin Span	10.0% to 200.0%	100.00%		58
211	X	Vn2 Config	n/a	0-10V		58
212	X	V n2 Offset	0.0% to 100.0%	0.00%		59
213	X	Vn2 Span	10.0% t O 200.0%	100.00%		59
214	X	Vin1 filterr time	20ms	20ms		
215	X	Cin FilterTime	20ms	20ms		

No.		Parameter Name	Options	Default	User Setting	SeePage
216	X	Vin2 Filter Time	20ms	20ms		
217	X	Trim Ref Enable	Disabled	Disabled		
218	X	Trom % Factor	0	0		
222	X	Ref loss Config	No Fault	No Fault		
301	**X**	**Min Frequency**	**0.0 - Max Freq.**	**0.0hz**	**8**	**59**
302	**X**	**Max Frequency**	**20.0 -400.0 Hz**	**60.0 hz**		**59**
303	X	Preset Freq 1	Min Freq-Max Freq	5.0 Hz		59
304	X	Preset Freq 2	Min Freq-Max Freq	10.0 Hz		59
305	X	Preset Freq 3	Min Freq-Max Freq	20.0 Hz		59
306	X	Preset Freq 4	Min Freq-Max Freq	30.0 Hz		59
307	X	Preset Freq 5	Min Freq-Max Freq	40.0 Hz		59
308	X	Preset Freq 6	Min Freq-Max Freq	50.0 Hz		59
309	X	Cut Off Freq	0.0Hz	0.0Hz		
401	X	Ramp Select	n/a	ART-DI		60
402	**X**	**Accel Time 1**	**0.1-3200.0 sec**	**5.0 sec**	**9**	**61**
403	**X**	**Decal Time 1**	**0.1-3200.0 sec**	**5.0 sec**	**1**	**61**
404	X	Accel Time 2	0.1-3200.0 sec	3.0 sec		61
405	X	Decal Time 2	0.1-3200.0 sec	3.0 sec		61
406	X	DC Inject Config	n/a	DC at Stop		62
407	X	DC Inject Time	0.0-5.0 sec	0.2 sec		63
408	X	DC Inject Level	0.0% to 100.0%	0.5	**50.00%**	63
409	X	DC Inj Freq	0.0 to 20.0 Hz	0.0 Hz		63
410	X	DB config	n/a	internal		64
414	X	Decel Time	15.0 Sec	15.0 Sec		
501	X	V/Hz Select	n/a	Linear Fxd		65
502	**X**	**Voltage Boost**	**0.0-50% I**	**0**	**2%**	**66**
503	X	V/Hz knee Freq	25.0-400.0 Hz	60.0 Hz		66
504	X	Skip Freq Band	0.2-20.0 Hz	0.2 Hz		67
505	X	Skip Freq 1	Min Freq-Max Freq	0.0 Hz		67
506	X	Skip Freq 2	Min Freq-Max Freq	0.0 Hz		67
507	X	Skip Freq 3	Min Freq-Max Freq	0.0 Hz		67
508	X	Skip Freq 4	Min Freq-Max Freq	0.0 Hz		67
509	**X**	**Rated Mtr Volt**	**100v-690v**	**Model Dependant**	208-240V = 200 380V = 370 460V = 460	**67**
510	**X**	**Rated Mtr FLA**	**50%-200% of ND rating**	**No Rating**	208-240 V = 9.7 380V= 4.1 460V = 5.1	**67**
511	X	Rat„ . Mtr PPM	0-24000 rpm	1750 rpm	**motor rating**	67
512	X	Midpoint Freq	0.0 Hz-VHz Knee Freq	60.0 Hz	**Unit Rating**	68
513	X	Midpoint Volt	0.0-100.0%	100%		68
514	**X**	**Motor RS**	**0.0-655.35 Ohms**	**1.0 ohms**	208-240V = 0.5 380V = 0.9 460V = 1.85	**68**
515	X	Power Factor	0.50-1.00	0.8	208-240V = 0.8 380V = 0.74 460V = 0.8	68
517	X	Single Phase	n/a	No		68
526	X	UV Ride-Thru En	Text String	Disabled		
600	X	Current Lim Sal	0-6	Fixed Lvls		69
601	X	Cur Lim Mtr Fwd	5%-150%	120%		69
602	X	Cur Lim Mtr Rev	5%-150%	120%		70
603	X	Cur Lim Reg. Fwd	5%-150%	80%		70
604	X	Cur Lim Reg Rev	5%-150%	80%		70
605	**X**	**Cur Lim Freq**	**Min Freq-Max Freq**	**3.0 Hz**		**70**
606	X	Ramp Time CL	0.1-3200.0 sec	1.0 sec		70
607	X			10%		
608	X	Restart Number	n/a	0		71
609	X	Restart Delay	0-60 sec	60 sec		72

No.		Parameter Name	Options	Default	User Setting	SeePage
610	X	Timed OL Select	n/a	Std Ind 60s		72
613	X	Max. Regen Ramp		**300%**		
614	X			0		
615	X			5		
700	X	Vmet Config	Na	Out Freq		73
701	X	Vmet Span	0.0-200.0% 100.0%	100%		73
702	X	Imet Config	n/a	Drive Load		73
703	X	Imet Span	0.0-200.0%	100%		73
704	X	Imet Offset	0.0-90.0-%	0		73
705	**X**	**Relay 1 Select**	**n/a**	**Faulted**	**Drive Run**	**74**
706	X	Relay 2 Select	n/a	Drive Run		75
707	X	D01 Select	n/a	Drv Ready		76
708	X	D02 Select	n/a	At Speed		77
720	X	Active Logic		Active high		78
721	X	D1 Configure	n/a	Preset 1		78
722	X	D2 Configure	n/a	Preset 2		78
723	X	D3 Configure	n/a	Preset 3		78
724	X	D4 Configure	n/a	Alt Ramp		78
725	X	D5 Configure	n/a	Fault Reset		78
726	X	MOL Polarity I	n/a	NO Operate		79
727	X	MOL Config	MOL	MOL		
801	**X**	**Program Number**	**0-9999**	**0**		**79**
802	X	Start options	n/a	L S Lockout		79
803	**X**	**PWM Frequency**	**0.6-16.0 kHz**	**3.0Khz**	**9**	**80**
804	X	Display Mode	n/a	Std Disply		80
805	X	Display Units(1)	alphanumeric	RPM:1		81
809	X	Display Scale	1-65535	1		81
810	X	Language	n/a	English		81
811	X	Access Code	0-9999	0		81
812	X	Freq Ref Output	n/a	6FS		82
813	X	Speed Ratio	0.0-200.0%	100%		82
814	X	Display Status	n/a	Drive load		82
816	X	Sweep FWD		Sweep FWD		
850	X	PI Configure	n/a	No PI		83
851	X	Pi Feedback	n/a	Vin 1		83
852	X	PI Prop Gain	0-2000	0		83
853	X	PI Int Gain	0-10000	0		83
854	X	PI Feed Gain	0-2000	1000		84
855	X	PI Error 1	0.00-100.00%	0.00%		84
856	X	PI Error 2	0.00-100.00%	0.00%		84
857	X	PI High Corr	0.00-100.00%	100.00%		84
858	X	PI Low Corr	0.00-100.00%	0.00%		84
909	X	DI Status	n/a	Read-only		87
910	X	Vint Status	0.00-100.00°k	Read-only		87
911	X	Cin Status	0.00-100.00%	Read-only		87
912	X	V'in2 Status	0.00-100.00%	Read-only		87
913	X	Output Status	n/a	Read-only		87
914	X	Vmet Status	0.00-100.00%	Read-only		87
915	X	Imet Status	0.00-100.00%	Read-only		88

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