

This worksheet applies to AccuLoad II operating with SQR-00 and above firmware. (Refer to Operator Reference Manual MN06103L for complete program entry descriptions.)

Security Access Code: _____

Company Name: _____

Prepared By: _____

Date: _____

Unit/Meter No.: _____

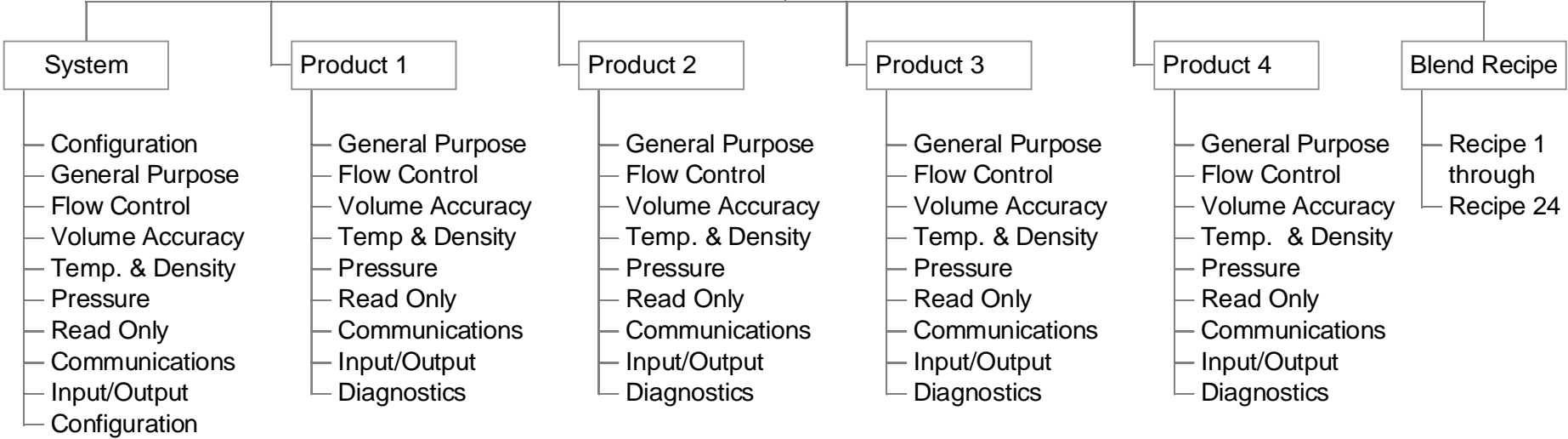
Location: _____



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Directories



Program Code	Function	Description	Entry	Program Code
System Directories				
000		System Configuration Directory		000
001	Number of Products	Enter: "1" One (1) Product "2" Two (2) Products "3" Three (3) Products "4" Four (4) Products	—	001
002	Number of Additive Injectors	Enter: "0" No Additive Injectors "1" One (1) Additive Injector "2" Two (2) Additive Injectors "3" Three (3) Additive Injectors "4" Four (4) Additive Injectors "5" Five (5) Additive Injectors "6" Six (6) Additive Injectors "7" Seven (7) Additive Injectors	—	002
003	A/C Output Relay 1 Terminals 89 & 90 (Position #1) Terminals 124 & 125 (Position #2)	Enter: "00" No Assignment (NAS) "01" Alarm Relay (ALR) "02" Additive Relay 1 (ADD1) "03" Additive Relay 2 (ADD2) "04" Additive Relay 3 (ADD3) "05" Additive Relay 4 (ADD4) "06" Additive Relay 5 (ADD5) "07" Additive Relay 6 (ADD6) "08" Additive Relay 7 (ADD7) "09" Block Valve Relay 1 (BVR1) "10" Block Valve Relay 2 (BVR2) "11" Block Valve Relay 3 (BVR3) "12" Block Valve Relay 4 (BVR4) "13" General Relay (GEN) "14" First Trip Indicator (FTR)	— —	003
Note: When using a Smart Additive Subsystem, options 02 through 08 (Additive Relays) are not available for selection.				
004	A/C Output Relay 2 Terminals 91 & 92 (Position #1) Terminals 126 & 127 (Position #2)	Enter: "00" No Assignment (NAS) "01" Alarm Relay (ALR) "02" Additive Relay 1 (ADD1) "03" Additive Relay 2 (ADD2) "04" Additive Relay 3 (ADD3) "05" Additive Relay 4 (ADD4) "06" Additive Relay 5 (ADD5) "07" Additive Relay 6 (ADD6) "08" Additive Relay 7 (ADD7) "09" Block Valve Relay 1 (BVR1) "10" Block Valve Relay 2 (BVR2) "11" Block Valve Relay 3 (BVR3) "12" Block Valve Relay 4 (BVR4) "13" General Relay (GEN) "14" First Trip Indicator (FTR)	— —	004
Note: When using a Smart Additive Subsystem, options 02 through 08 (Additive Relays) are not available for selection.				

Program Code	Function	Description	Entry	Program Code
005	A/C Output Relay 3 Terminals 93 & 94 (Position #1) Terminals 128 & 129 (Position #2)	Enter: "00" No Assignment (NAS) "01" Alarm Relay (ALR) "02" Additive Relay 1 (ADD1) "03" Additive Relay 2 (ADD2) "04" Additive Relay 3 (ADD3) "05" Additive Relay 4 (ADD4) "06" Additive Relay 5 (ADD5) "07" Additive Relay 6 (ADD6) "08" Additive Relay 7 (ADD7) "09" Block Valve Relay 1 (BVR1) "10" Block Valve Relay 2 (BVR2) "11" Block Valve Relay 3 (BVR3) "12" Block Valve Relay 4 (BVR4) "13" General Relay (GEN) "14" First Trip Indicator (FTR)	— —	005
Note: When using a Smart Additive Subsystem, options 02 through 08 (Additive Relays) are not available for selection.				
006	A/C Output Relay 4 Terminals 95 & 96 (Position #1) Terminals 130 & 131 (Position #2)	Enter: "00" No Assignment (NAS) "01" Alarm Relay (ALR) "02" Additive Relay 1 (ADD1) "03" Additive Relay 2 (ADD2) "04" Additive Relay 3 (ADD3) "05" Additive Relay 4 (ADD4) "06" Additive Relay 5 (ADD5) "07" Additive Relay 6 (ADD6) "08" Additive Relay 7 (ADD7) "09" Block Valve Relay 1 (BVR1) "10" Block Valve Relay 2 (BVR2) "11" Block Valve Relay 3 (BVR3) "12" Block Valve Relay 4 (BVR4) "13" General Relay (GEN) "14" First Trip Indicator (FTR)	— —	006
Note: When using a Smart Additive Subsystem, options 02 through 08 (Additive Relays) are not available for selection.				
007	A/C Output Relay 5 Terminals 87 & 88 (Position #1) Terminals 121 & 122 (Position #2)	Enter: "00" No Assignment (NAS) "01" Alarm Relay (ALR) "02" Additive Relay 1 (ADD1) "03" Additive Relay 2 (ADD2) "04" Additive Relay 3 (ADD3) "05" Additive Relay 4 (ADD4) "06" Additive Relay 5 (ADD5) "07" Additive Relay 6 (ADD6) "08" Additive Relay 7 (ADD7) "09" Block Valve Relay 1 (BVR1) "10" Block Valve Relay 2 (BVR2) "11" Block Valve Relay 3 (BVR3) "12" Block Valve Relay 4 (BVR4)	— —	007
Note: When using a Smart Additive Subsystem, options 02 through 08 (Additive Relays) are not available for selection.				

Program Code	Function	Description	Entry	Program Code
008	D/C Output Relay 1 W/O Quad OPV Terminals 9 & 10 (Position #1) Terminals 57 & 58 (Position #2) W/Quad OPV Terminals 11 & 10 (Position #1) Terminals 15 & 14 (Position #2)	Enter: "00" No Assignment (NAS) "01" Pulse Output (POT) "02" Additive Relay 1 (ADD1) "03" Additive Relay 2 (ADD2) "04" Additive Relay 3 (ADD3) "05" Additive Relay 4 (ADD4) "06" Additive Relay 5 (ADD5) "07" Additive Relay 6 (ADD6) "08" Additive Relay 7 (ADD7) "09" Block Valve Relay 1 (BVR1) "10" Block Valve Relay 2 (BVR2) "11" Block Valve Relay 3 (BVR3) "12" Block Valve Relay 4 (BVR4)	— —	008

Note: When using a Smart Additive Subsystem, options 02 through 08 (Additive Relays) are not available for selection.

009	D/C Output Relay 2 W/Quad OPV Terminals 13 & 12 (Position #1) Terminals 17 & 16 (Position #2)	Enter: "00" No Assignment (NAS) "01" Pulse Output (POT) "02" Additive Relay 1 (ADD1) "03" Additive Relay 2 (ADD2) "04" Additive Relay 3 (ADD3) "05" Additive Relay 4 (ADD4) "06" Additive Relay 5 (ADD5) "07" Additive Relay 6 (ADD6) "08" Additive Relay 7 (ADD7) "09" Block Valve Relay 1 (BVR1) "10" Block Valve Relay 2 (BVR2) "11" Block Valve Relay 3 (BVR3) "12" Block Valve Relay 4 (BVR4)	— —	009
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Note: 1. This code is only available for use if the Quad OPV option has been purchased with the AccuLoad II. The terminals listed for this code are located on the Quad OPV board.
2. When using a Smart Additive Subsystem, options 02 through 08 (Additive Relays) are not available for selection.

010	A/C Input 1 Terminals 98 & 101 (Position #1) Terminals 106 & 109 (Position #2)	Enter: "00" No Assignment (NAS) "01" Additive Feedback 1 (AFB1) "02" Additive Feedback 2 (AFB2) "03" Additive Feedback 3 (AFB3) "04" Additive Feedback 4 (AFB4) "05" Additive Feedback 5 (AFB5) "06" Additive Feedback 6 (AFB6) "07" Additive Feedback 7 (AFB7) "08" Block Valve Feedback 1 (BVF1) "09" Block Valve Feedback 2 (BVF2) "10" Block Valve Feedback 3 (BVF3) "11" Block Valve Feedback 4 (BVF4) "12" First/Second High Flow (FSC) "13" Printer Tray Switch (PTS) * "14" Permissive 1 Contact (PRC1) "15" Permissive 2 Contact (PRC2) "16" Valve Power (VPW) "17" Valve Stem (VST)	— —	010
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Note: 1. Or can be used for Master Reset.*
2. When using a Smart Additive Subsystem, options 01 through 07 (Additive Feedbacks) are not available for selection.

Program Code	Function	Description	Entry	Program Code
011	A/C Input 2 Terminals 99 & 101 (Position #1) Terminals 107 & 109 (Position #2)	Enter: "00" No Assignment (NAS) "01" Additive Feedback 1 (AFB1) "02" Additive Feedback 2 (AFB2) "03" Additive Feedback 3 (AFB3) "04" Additive Feedback 4 (AFB4) "05" Additive Feedback 5 (AFB5) "06" Additive Feedback 6 (AFB6) "07" Additive Feedback 7 (AFB7) "08" Block Valve Feedback 1 (BVF1) "09" Block Valve Feedback 2 (BVF2) "10" Block Valve Feedback 3 (BVF3) "11" Block Valve Feedback 4 (BVF4) "12" First/Second High Flow (FSC) "13" Printer Tray Switch (PTS) * "14" Permissive 1 Contact (PRC1) "15" Permissive 2 Contact (PRC2) "16" Valve Power (VPW) "17" Valve Stem (VST)	— —	011

Note: 1. Or can be used for Master Reset.*
2. When using a Smart Additive Subsystem, options 01 through 07 (Additive Feedbacks) are not available for selection.

012	A/C Input 3 Terminals 100 & 101 (Position #1) Terminals 108 & 109 (Position #2)	Enter: "00" No Assignment (NAS) "01" Additive Feedback 1 (AFB1) "02" Additive Feedback 2 (AFB2) "03" Additive Feedback 3 (AFB3) "04" Additive Feedback 4 (AFB4) "05" Additive Feedback 5 (AFB5) "06" Additive Feedback 6 (AFB6) "07" Additive Feedback 7 (AFB7) "08" Block Valve Feedback 1 (BVF1) "09" Block Valve Feedback 2 (BVF2) "10" Block Valve Feedback 3 (BVF3) "11" Block Valve Feedback 4 (BVF4) "12" First/Second High Flow (FSC) "13" Printer Tray Switch (PTS) * "14" Permissive 1 Contact (PRC1) "15" Permissive 2 Contact (PRC2) "16" Valve Power (VPS) "17" Valve Stem (VST)	— —	012
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Note: 1. Or can be used for Master Reset.*
2. When using a Smart Additive Subsystem, options 01 through 07 (Additive Feedbacks) are not available for selection.

Program Code	Function	Description	Entry	Program Code
013	A/C Input 4 Terminals 103 & 105 (Position #1) Terminals 110 & 112 (Position #2)	Enter: "00" No Assignment (NAS) "01" Additive Feedback 1 (AFB1) "02" Additive Feedback 2 (AFB2) "03" Additive Feedback 3 (AFB3) "04" Additive Feedback 4 (AFB4) "05" Additive Feedback 5 (AFB5) "06" Additive Feedback 6 (AFB6) "07" Additive Feedback 7 (AFB7) "08" Block Valve Feedback 1 (BVF1) "09" Block Valve Feedback 2 (BVF2) "10" Block Valve Feedback 3 (BVF3) "11" Block Valve Feedback 4 (BVF4) "12" First/Second High Flow (FSC) "13" Printer Tray Switch (PTS) * "14" Permissive 1 Contact (PRC1) "15" Permissive 2 Contact (PRC2) "16" Valve Power (VPS) "17" Valve Stem (VST)	— —	013

- Note:**
1. Or can be used for Master Reset.*
 2. For "Remote Start" operation this code must be programmed "14" (Permissive Contact #1), code 806 must be programmed "5" (Remote Start) and jumpers must be installed as shown in the Installation Manual (MN06105).
 3. When using a Smart Additive Subsystem, options 01 through 07 (Additive Feedbacks) are not available for selection.

014	A/C Input 5 Terminals 104 & 105 (Position #1) Terminals 111 & 112 (Position #2)	Enter: "00" No Assignment (NAS) "01" Additive Feedback 1 (AFB1) "02" Additive Feedback 2 (AFB2) "03" Additive Feedback 3 (AFB3) "04" Additive Feedback 4 (AFB4) "05" Additive Feedback 5 (AFB5) "06" Additive Feedback 6 (AFB6) "07" Additive Feedback 7 (AFB7) "08" Block Valve Feedback 1 (BVF1) "09" Block Valve Feedback 2 (BVF2) "10" Block Valve Feedback 3 (BVF3) "11" Block Valve Feedback 4 (BVF4) "12" First/Second High Flow (FSC) "13" Printer Tray Switch (PTS) * "14" Permissive 1 Contact (PRC1) "15" Permissive 2 Contact (PRC2) "16" Valve Power (VPS) "17" Valve Stem (VST)	— —	014
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- Note:**
1. Or can be used for Master Reset.*
 2. For "Remote Stop" operation this code must be programmed "15" (Permissive 2 Contact), code 810 must be programmed "5" (Remote Stop) and jumpers must be installed as shown in the Installation Manual (MN06105).
 3. When using a Smart Additive Subsystem, options 01 through 07 (Additive Feedbacks) are not available for selection.

Program Code	Function	Description	Entry	Program Code
015	A/C Input 6 Terminals 73 & 74 (Position #1) Terminals 75 & 76 (Position #2)	Enter: "00" No Assignment (NAS) "01" Additive Feedback 1 (AFB1) "02" Additive Feedback 2 (AFB2) "03" Additive Feedback 3 (AFB3) "04" Additive Feedback 4 (AFB4) "05" Additive Feedback 5 (AFB5) "06" Additive Feedback 6 (AFB6) "07" Additive Feedback 7 (AFB7) "08" Block Valve Feedback 1 (BVF1) "09" Block Valve Feedback 2 (BVF2) "10" Block Valve Feedback 3 (BVF3) "11" Block Valve Feedback 4 (BVF4) "12" First/Second High Flow (FSC) "13" Printer Tray Switch (PTS) * "14" Permissive 1 Contact (PRC1) "15" Permissive 2 Contact (PRC2) "16" Valve Power (VPW) "17" Valve Stem (VST)		015

Note: 1. Or can be used for Master Reset.*
2. When using a Smart Additive Subsystem, options 01 through 07 (Additive Feedbacks) are not available for selection.

016-039 Unassigned at Present 016-039

040	Print Configuration	Enter: Press 'ENTER' to Print Configuration Report.		040
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Note: Configuration Report will print for both preset positions.

041	Additive System and Pacing Control Selection	Enter: "0" Piston Injectors "1" Titan w/Pulse "2" Titan w/Comm "3" Gate City w/Pulse "4" Gate City w/Comm "5" Gate City Mini-Pak w/Pulse "6" Gate City Mini-Pak w/Comm		041
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042-089 Unassigned at Present 042-089

090	Input/Output Configuration	Enter: "1" One Product "2" Two Products "3" Three Products "4" Four Products		090
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Note: Entering the above number will program the AccuLoad II to a typical Input and Output configuration for the number of products selected. Refer to manual MN06103L for input & output assignments when using this method of configuring the AccuLoad II - SQR.

Caution: This code will override anything that is currently programmed in the configuration directory. Do not use this code if you have already configured the unit.

091-099 Unassigned at Present 091-099

Program Code	Function	Description	Entry	Program Code
100		System General Purpose Directory		100
101	System Alarm Check/Reset	Read only, Press E to clear	None	101

Available Alarms

AC: Additive Communications	L5: Additive 5 Pulse
A2: Print Cover Open	L6: Additive 6 Pulse
A4: Print Cover Open	L7: Additive 7 Pulse
B2: Buffer Overflow	M1: Too Many Pulses Additive 1
B4: Buffer Overflow	M2: Too Many Pulses Additive 2
CL: Clean Line	M3: Too Many Pulses Additive 3
CM: Communication	M4: Too Many Pulses Additive 4
DA: EEPROM Bad	M5: Too Many Pulses Additive 5
DA: Ram Bad	M6: Too Many Pulses Additive 6
DA: Rom Uxx Bad	M7: Too Many Pulses Additive 7
DA: Watchdog Alarm	N1: No Pulses Detected Address 1
DA: Display Error	N2: No Pulses Detected Address 2
DA: Data Retention	N3: No Pulses Detected Address 3
DA: Display Boot Required	N4: No Pulses Detected Address 4
DA: Control Module	N5: No Pulses Detected Address 5
DA: Security Code	N6: No Pulses Detected Address 6
DA: Software Version	N7: No Pulses Detected Address 7
DA: Internal Temperature	OA: Overrun
DA: Program Code	O2: Printer Paper Out
DP: Down Pulse Error	O4: Printer Paper Out
DR: Density Transducer	PA: Power Fail
D2: Printer Deselected	PC: Pulse Collision
D4: Printer Deselected	PR: Pressure Transducer
E2: Printer Error	PS: Pulse Security
E4: Printer Error	PT: Pulse Transmission
F1: Add 1 Feedback	P2: Printer Communication
F2: Add 2 Feedback	P4: Printer Communication
F3: Add 3 Feedback	R1: Additive 1 Frequency
F4: Add 4 Feedback	R2: Additive 2 Frequency
F5: Add 5 Feedback	R3: Additive 3 Frequency
F6: Add 6 Feedback	R4: Additive 4 Frequency
F7: Add 7 Feedback	R5: Additive 5 Frequency
H2: Printer Hardware	R6: Additive 6 Frequency
H4: Printer Hardware	R7: Additive 7 Frequency
IA: Injector Alarm	SF: Storage Full
I2: Printer Not Responding	SP: Shared Printer
I4: Printer Not Responding	TK: Ticket Alarm
K1: Low Additive 1	TP: Temperature Probe
K2: Low Additive 2	TT: Temperature Transducer
K3: Low Additive 3	U1: Unauthorize Command Failed Additive 1
K4: Low Additive 4	U2: Unauthorize Command Failed Additive 2
K5: Low Additive 5	U3: Unauthorize Command Failed Additive 3
K6: Low Additive 6	U4: Unauthorize Command Failed Additive 4
K7: Low Additive 7	U5: Unauthorize Command Failed Additive 5
L1: Additive 1 Pulse	U6: Unauthorize Command Failed Additive 6
L2: Additive 2 Pulse	U7: Unauthorize Command Failed Additive 7
L3: Additive 3 Pulse	VF: Valve Fault
L4: Additive 4 Pulse	ZF: Zero Flow

Program Code	Function	Description	Entry	Program Code
102	Product 1 Alarm Check/Reset	Read only, Press E to clear	None	102
Available Alarms				
	BH: Blend High		HP: High Pressure	
	BL: Blend Low		HT: High Temperature	
	BP: Back Pressure		LD: Low Density	
	BV: Block Valve Fault		LF: Low Flow	
	HD: High Density		LP: Low Pressure	
	HF: Excess High Flow		LT: Low Temperature	
103	Product 2 Alarm Check/Reset	Read only, Press E to clear	None	103
Available Alarms				
	BH: Blend High		HP: High Pressure	
	BL: Blend Low		HT: High Temperature	
	BP: Back Pressure		LD: Low Density	
	BV: Block Valve Fault		LF: Low Flow	
	HD: High Density		LP: Low Pressure	
	HF: Excess High Flow		LT: Low Temperature	
104	Product 3 Alarm Check/Reset	Read only, Press E to clear	None	104
Available Alarms				
	BH: Blend High		HP: High Pressure	
	BL: Blend Low		HT: High Temperature	
	BP: Back Pressure		LD: Low Density	
	BV: Block Valve Fault		LF: Low Flow	
	HD: High Density		LP: Low Pressure	
	HF: Excess High Flow		LT: Low Temperature	
105	Product 4 Alarm Check/Reset	Read only, Press E to clear	None	105
Available Alarms				
	BH: Blend High		HP: High Pressure	
	BL: Blend Low		HT: High Temperature	
	BP: Back Pressure		LD: Low Density	
	BV: Block Valve Fault		LF: Low Flow	
	HD: High Density		LP: Low Pressure	
	HF: Excess High Flow		LT: Low Temperature	
106	Blend Alarms Check/Reset	Read only, Press E to clear	None	106
Available Alarms				
DA: Program Code				
107	Transaction Alarms	To be read only	None	107
108	Ready Mode Alarms	To be read only	None	108

Program Code	Function	Description	Entry	Program Code
109	Set Time	Enter: Five (5) digits. Two (2) digits for hours, Two (2) digits for minutes and one (1) to indicate military, time, AM or PM. The last digit will be "0" = AM, "1" = PM and "2" = Military (e.g., 01:130)	— — — — —	109
110	Set Date	Enter: Six (6) digits. Two (2) digits for month followed by two (2) digits for day, followed by (2) digits for year (e.g., 011288)	— — — — —	110
111	Dynamic Display Time-out	Enter: Two (2) digits in seconds of time-out (e.g., 15) "00" Display will remain till the "CLEAR" key is pressed	— —	111
112-139	Unassigned at Present			112-139
140	Protection of Program Codes 180-189	Enter: "0" for Weights and Measures Mode "1" for Program Mode	—	140
141	Local Mode Alarm Clearing	Enter: One (1) digit from one (1) to nine (9) indicates the number of alarms that can be cleared during a transaction when in the Run & Ready Mode. (e.g., 3)	—	141
142	Decimal or Comma Selection	Enter: "0" Decimal "1" Comma	—	142
143	Alarm Relay	Enter: "0" Alarm Relay on Valve Fault "1" Alarm Relay on Any Fault "2" No Alarm Relay	—	143
144	Run & Ready Mode Initialization	Enter: "0" English "1" Not Used "2" Spanish	—	144
Note: Entry "1" is reserved for future use and is not allowed by the AccuLoad II.				
145	Ready/Run Mode Clearable Alarms Selection	Enter: The number of the alarm that is to be changed (see Appendix for the alarms, associated numbers and recording entries.) When the alarm is displayed enter a "0" if the alarm is allowed to be cleared in the Ready/Run Mode. Enter a "1" if the alarm is not allowed to be cleared in the Ready/Run Mode.		145
Note: 1. If code 141 is set to "0" the message "No Alarm Clearing" will be displayed and no entries will be allowed.				
146-179	Unassigned at Present			146-179
180	Programming Access Code	Enter: Four digit number permits entry in to the Program or Weights and Measures Mode (e.g., 1234)	— — — —	180

Program Code	Function	Description	Entry	Program Code
181	Transaction Security ID	Enter: Eight (8) digit transaction ID number (e.g., 12345678) "00000000" disables this feature.		181
182	Transaction Security Prompt Message	Enter: Up to twenty (20) characters for a prompt message (e.g., Enter ID Number)		182
183	Auto Reset Timer	Enter: Two (2) digit number in minutes that the AccuLoad II will remain in the a mode of operation before automatically returning to the Ready Mode (e.g., 05) "00" disables this feature.	__ __	183
184	Ready Mode Message	Enter: Up to Fifteen (15) characters for a prompt message (e.g., Load Arm #1)	_____	184
185	Run & Ready Mode Customized Display	Enter: The number of the display that you want to change. Press "ENTER". The default display will appear for that number or you can scroll through the displays by pressing the "ENTER" key. The display can be changed using the character set resident in the AccuLoad II. (See Appendix for entry numbers and to record translation.)		185
186	Power-fail Alarm	Enter: "0" Power-fail Alarm Disabled "1" Power-fail Alarm Enabled	__	186
187-189	Unassigned at Present			187-189
190	Meter Position Disable	Enter: "0" Meter Enabled "1" Meter Disabled	__	190
191-199	Unassigned at Present			191-199
200	System Flow Control Directory			200
201	Low Flow Start Volume	Enter: Four (4) digits in whole units (e.g., 0100)	__ __ __ __	201
202	Low Flow Start Rate	Enter: Four (4) digits in whole units per minute (e.g., 0150) "0000" entry will not allow the valve to open.	__ __ __ __	202
203	Low Flow Start	Enter: "0" Low Flow Start always after "START" is pressed. "1" Low Flow Start at beginning of batch only.	__	203
204	Zero Flow Timer	Enter: Two (2) digits in seconds (e.g., 15) "00" disables this option	__ __	204

Program Code	Function	Description	Entry	Program Code
205	Overrun Alarm Limit	Enter: Two (2) digits in whole units (e.g., 15) "00" disables the alarm	__ __	205
206	Start Delay After Stop	Enter: Three (3) digits in whole seconds of delay time (e.g., 020)	__ __ __	206
207	Pump Relay Time Delay	Enter: Two (2) digits in seconds of delay time (e.g., 09)	__ __	207
208	Valve Delay To Open	Enter: Two (2) digits in seconds of delay time. (e.g., 07) "00" disables option	__ __	208
209	PT/VF Time Delay	Enter: Two (2) digits in seconds of time delay (e.g., 15) Entry must not be "00"	__ __	209
210	Flow Control Valve	Enter: "0" for a Digital Valve "1" for a Two-stage Valve	__	210
211	Zero Flow Alarm	Enter: "0" Zero Flow Alarm Disabled "1" Zero Flow Alarm Enabled	__	211
212-239	Unassigned at Present			212-239
240	Protection of Program Codes 280-289	Enter: "0" for Weights and Measures Mode "1" for Program Mode	__	240
241	Flow Control Valve Security	Enter: "0" for No Security "1" for Security	__	241
242-279	Unassigned at Present			242-279
280	Clean Line Product	Enter: "1" for Product 1 "2" for Product 2 "3" for Product 3 "4" for Product 4	__	280
281	Clean Line Volume	Enter: Three (3) digits in whole units of product to be left in the line at the end of the batch. (e.g., 050)	__ __ __	281
<i>Note: The Clean Line Volume is always subtracted from 1st product in the recipe</i>				
282	Clean Line Alarm Limit	Enter: Two (2) digits in volume of under delivery of the clean line volume allowed. (e.g., 10)	__ __	282
283	Block Valve Position	Enter: "0" Valve off SP & ET "1" Valve on SP, off ET "2" Valve off SP, on ET "3" Valve on SP & ET	__	283
<i>Note: ET = End of Transaction and SP = Stop is Pressed</i>				
284-299	Unassigned at Present			284-299

Program Code	Function	Description	Entry	Program Code
300	System Volume Accuracy Directory			300
301	Transaction Control	Enter: "0" Local Tray Switch "1" Print Key "2" Remote "3" Master Reset	—	301
302	Maximum Preset Volume	Enter: Five (5) digits in whole units (e.g., up to 99,999 units) "00000" disables option	— — — — —	302
303	Minimum Preset Volume	Enter: Five (5) digits in whole units (e.g., up to 99,999 units) "00000" disables option	— — — — —	303
304	Auto Preset	Enter: Five (5) digits in whole units (e.g., 99,999 units) "00000" disables option	— — — — —	304
305	Auto Preset Increment	Enter: Four (4) digits in whole units to increment the auto preset. (e.g., 0100 units) "0000" disables option	— — — —	305
306	Blank Downcounter	Enter: "0" Downcounter to be Displayed "1" No Downcounter Displayed	—	306
307	Volumes for Local Storage	Enter: Five (5) digit number indicating the volumes that will be stored in local storage.		307
<i>Note: A maximum of three (3) volumes will be stored.</i>				
		1st digit - Raw Volumes (RW) 2nd digit - Gross Volumes (GR) 3rd digit - Gross at Standard Temperature Volumes (GT) 4th digit - Net Volumes (NT) 5th digit - Mass Totals (MA)		
		A zero (0) in the digit indicates that the volume will not be saved in local storage, a (1) indicates the volume will be saved in local storage.	— — — — —	
308-339	Unassigned at Present			308-339
340	Protection of Program Codes 380-389	Enter: "0" for Weights and Measures Mode "1" for Program Mode	—	340

Program Code	Function	Description	Entry	Program Code
341	Dual Pulse Error Count	Enter: Three (3) digits indicating the number of error counts from the Dual Pulse Comparator prior to alarming. (e.g., 050)	— — —	341
<i>Note: "000" disables the error counting.</i>				
342	Dual Pulse Error Reset	Enter: "0" No DPC Error Reset "1" Reset at the End of Transaction Only "2" Reset Upon Power-up Only "3" Reset Upon Power-up and at the End of Each Transaction	—	342
343	Dual Pulse Flow Rate Cutoff	Enter: Three (3) digits defining the flow rate that the Dual Pulse errors will begin to be counted.	— — —	343
344	Display Units	Enter: Three (3) character message identifying the display units (e.g., GAL)	— — —	344
345	Corrected Display	Enter: "0" No Correction "1" Correct Delivery Display "2" Corrected Preset Display "3" Corrected Delivery & Preset	—	345
346	Pulse #1 Output	Enter: "0" Raw Pulse Out 1 "1" Gross Pulse Out 1 "2" Gst Pulse Out 1 "3" Net Pulse Out 1 "4" Mass Pulse Out 1	—	346
347	Pulse #1 Output Resolution	Enter: Four (4) digits defining the pulse output resolution (units/pulse) in tenth units, "0000" Disables this feature (e.g., 010.0)	— — — . —	347
<i>Note: Input pulses must be 2.5 times greater than the output pulses (e.g., 100 output pulses/unit volume requires at least 250 input pulses/unit volume).</i>				
348	Pulse #2 Output	Enter: "0" Raw Pulse Out 2 "1" Gross Pulse Out 2 "2" Gst Pulse Out 2 "3" Net Pulse Out 2 "4" Mass Pulse Out 2	—	348

Program Code	Function	Description	Entry	Program Code
349	Pulse #2 Output Resolution	Enter: Four (4) digits defining the pulse output resolution (units/pulse) in tenth units, "0000" Disables this feature (e.g., 010.0)	— — — — . —	349
<i>Note: Input pulses must be 2.5 times greater than the output pulses (e.g., 100 output pulses/unit volume requires at least 25- input pulses/unit volume).</i>				
350	Display Resolution	Enter: "0" Whole Unit Display "1" Tenth Unit Display "2" Hundredth Unit Display "3" Tens Unit Display	—	350
351	Input Resolution	Enter: Four (4) digit number representing the number of pulses per unit of registration (e.g., 0100) Entry must be between 0025 and 9999	— — — —	351
352	Proving Modes	Enter: "0" Not Proving "1" Weights and Measures Proving "2" High Speed Proving	—	352
353	Proving Output	Enter: "0" No Prover Output "1" Meter #1 Prover Output "2" Meter #2 Prover Output	—	353
354	Proving Output Units	Enter: "0" Raw Prover Output (Raw) "1" Gross Prover (Grs) "2" Gross Prover at Standard Temperature (Gst) "3" Gross Prover at Standard Temperature and Pressure Preset (Net) "4" Mass Preset (Whole Units)	—	354
355	Blend Tolerance (Percentage)	Enter: Two (2) digits in tenths of a percentage for the tolerance allowed for all delivered blends. (e.g., 5.0 = 5 %)	— —	355
<i>Note: The larger of the tolerances as calculated using the percentage entered in this code or the volume entered in code 357 will be used to determine when a blend alarm should be triggered.</i>				
356	Blend Tolerance (Volume)	Enter: Three (3) digits of Volume for Blend Tolerance in tenths of units. (e.g., 10.0)	— . —	356
<i>Note: The larger of the tolerances as programmed in this code or calculated in code 356 will be used to determine when a blend alarm will be triggered.</i>				
357	Blend Correction	Enter: "0" No Blend Correction "1" Self-corrected Blend "2" Self-corrected/Complete Blend	—	357

Program Code	Function	Description	Entry	Program Code
358	Recipes Per Transaction	Enter: "0" Single Recipe/Transaction "1" Multiple Recipes/Transaction	—	358
359	Auto Proving Select	Enter: "0" Auto Proving Disabled "1" Auto Proving Enabled "2" Auto Proving Always	—	359
360-389	Unassigned at Present			360-389
390	Input Pulse Type	Enter: "0" Active Pulse Input "1" Contact Type Input	—	390
391	Input Pulse Doubler	Enter: "0" Pulses Times One "1" Pulses Times Two	—	391
392	Transmitter Type	Enter: "0" Single Channel "1" Single and Inverted "2" Dual Channel "3" Dual and Inverted	—	392
393-399	Unassigned at Present			393-399
400	System Temperature & Density Directory			400
401-439	Unassigned at Present			401-439
440	Protection of Program Codes 480-489	Enter: "0" for Weights and Measures Mode "1" for Program Mode	—	440
441	Temperature Units	Enter: "0" No Temperature Probe "1" Fahrenheit "2" Celsius	—	441
442	Reference Temperature	Enter: Four (4) digit reference temperature in tenth degrees (e.g., 060.0)	— — — — . —	442
443	Temperature Offset	Enter: Three (3) digits. First digit must be "0" or "1" (0 = positive, 1 = negative). Second and third digits represent the offset temperature in tenth degrees (e.g., 10.5 entered will display as -0.5 degrees offset)	— — — . —	443
444	Density or Temperature Input	Enter: "0" Density Input "1" Temperature Input	—	444
<i>Note: If Temperature is selected AccuLoad II will ignore the RTD channel. To accept readings from the RTD channel this entry must be selected for density input.</i>				
445	Density Units	Enter: "0" No Densitometer Installed "1" Lbs/Ft ³ . "2" Kgs/M ³ .	—	445

Program Code	Function	Description	Entry	Program Code
446	Minimum Density OR Minimum Temperature as selected in code 444	Enter: Five (5) digits. For minimum density at 4 mA in tenth units (e.g., 0100.0). For minimum Temperature at 4 mA the first digit indicates the polarity. First digit "0" = Positive First digit "1" = Negative The last four digits indicate the temperature in tenth degrees. (e.g., 0030.0 = +030.0) Temperature units as selected in code 441.	_____ . __	446
447	Maximum Density OR Maximum Temperature as selected in code 444	Enter: Five (5) digits. For maximum density at 20 mA in tenth units (e.g., 1600.0). For maximum Temperature at 4 mA the first digit indicates the polarity. First digit "0" = Positive First digit "1" = Negative The last four digits indicate the temperature in tenth degrees. (e.g., 0100.0 = +100.0) Temperature units as selected in code 441. An entry of -999.9 (Temperature) or 0000.0 (Density) will disable this feature.	_____ . __	447
448	Volume/Mass Conversion	Enter: "0" Gallons per Density Units "1" Dekaliters per Density Units "2" Liters per Density Units "3" Barrels per Density Units "4" Cubic Meters per Density Units	__	448
449	Mass Units	Enter: Three (3) character message identifying the mass units (e.g., Lbs)	___	449
450-499	Unassigned at Present			450-499
500	System Pressure Directory			500
501-539	Unassigned at Present			501-539
540	Protection of Program Codes 580-589	Enter: "0" for Weights and Measures Mode "1" for Program Mode	__	540
541	Pressure Units	Enter: "0" No Pressure Transducer Installed "1" Psi "2" Bar "3" Kgcm	__	541
542	Minimum Pressure Units	Enter: Four (4) digits in tenth units for minimum pressure at 4 mA. (e.g., 1600 = 160.0) Units dependent on selection in code 541.	_____ . __	542

Program Code	Function	Description	Entry	Program Code
543	Maximum Pressure Units	Enter: Four (4) digits in tenth units for maximum pressure at 20 mA. (e.g., 4500 = 450.0) Units dependent on selection in code 541. "0000" indicates no pressure transducer installed. _ _ _ . _		543
544-599		Unassigned at Present		544-599
600		System Read Only Directory		600
601	Injector 1 Non-resettable Totals	To be read only	None	601
602	Injector 2 Non-resettable Totals	To be read only	None	602
603	Injector 3 Non-resettable Totals	To be read only	None	603
604	Injector 4 Non-resettable Totals	To be read only	None	604
605	Injector 5 Non-resettable Totals	To be read only	None	605
606	Injector 6 Non-resettable Totals	To be read only	None	606
607	Injector 7 Non-resettable Totals	To be read only	None	607
608	Local Storage Transactions	To be read only	None	608
609-639		Unassigned at Present		609-639
640	Protection of Program Codes 680-689	Enter: "0" for Weights and Measures Mode "1" for Program Mode	_	640
641-699		Unassigned at Present		641-699
700		System Communication Directory		700
701	EIA-232 Communication Type	Enter: "0" No Communications "1" for EIA Type Terminal "2" for EIA Type Minicomputer "3" Gate City Additive System	_	701
702	EIA-232 Communication Control	Enter: "0" for Poll Only "1" for Poll and Authorize "2" for Remote Control "3" for Auto Out "4" for Shared Auto Out "5" Smart Additives	_	702

Program Code	Function	Description	Entry	Program Code
703	EIA-232 Baud Rate	Enter: "0" for 110 Baud "1" for 150 Baud "2" for 300 Baud "3" for 600 Baud "4" for 1200 Baud "5" for 2400 Baud "6" for 3600 Baud "7" for 4800 Baud "8" for 7200 Baud "9" for 9600 Baud	—	703
704	EIA-232 Data Format	Enter: "0" EIA-232 7 Bits Even "1" EIA-232 7 Bits Odd "2" EIA-232 7 Bits None "3" EIA-232 8 Bits Even "4" EIA-232 8 Bits Odd "5" EIA-232 8 Bits None	—	704
705	EIA-485 Communication Type	Enter: "0" No Communications "1" EIA Type Terminal "2" EIA Type Minicomputer "3" Gate City Additive System	—	705
706	EIA-485 Communication Control	Enter: "0" for Polling only "1" for Poll and Authorize "2" for Remote Control "3" for Auto Out "4" for Shared Auto Out "5" Smart Additives	—	706
707	EIA-485 Baud Rate	Enter: "0" for 110 Baud "1" for 150 Baud "2" for 300 Baud "3" for 600 Baud "4" for 1200 Baud "5" for 2400 Baud "6" for 3600 Baud "7" for 4800 Baud "8" for 7200 Baud "9" for 9600 Baud	—	707
708	EIA-485 Data Format	Enter: "0" EIA-485 7 Bits Even "1" EIA-485 7 Bits Odd "2" EIA-485 7 Bits None "3" EIA-485 8 Bits Even "4" EIA-485 8 Bits Odd "5" EIA-485 8 Bits None	—	708
709	Communication Address	Enter: Two (2) digit number to identify the unit location for communications, range 01 to 99 (e.g., 25)	— —	709
710	Printer Output Message #1	Enter: Up to twenty (20) characters for printer message (e.g., Smith Meter Inc.) _____	_____	710

Program Code	Function	Description	Entry	Program Code
711	Printer Output Message #2	Enter: Up to twenty (20) characters for printer message (e.g., P. O. Box 10428)		711
712	Printer Output Message #3	Enter: Up to twenty (20) characters for printer message (e.g., 1602 Wagner Ave.)		712
713	Printer Output Message #4	Enter: Up to twenty (20) characters for printer message (e.g., Erie, Pa.)		713
714	Printer Output Message #5	Enter: Up to twenty (20) characters for printer message (e.g., Erie Terminal)		714
715	Prompt Message #1	Enter: Up to twenty (20) characters for prompt message (e.g., Enter Driver ID)		715
716	Prompt Message #2	Enter: Up to twenty (20) characters for prompt message (e.g., Enter Company ID)		716
717	Prompt Message #3	Enter: Up to twenty (20) characters for prompt message (e.g., Enter Trailer No)		717
718	Prompt Message #4	Enter: Up to twenty (20) characters for prompt message (e.g., Enter Carrier ID)		718
719	Prompt Message #5	Enter: Up to twenty (20) characters for prompt message (e.g., Connect Ground)		719
720	Meter ID	Enter: Up to twenty (20) characters for meter identification (e.g., Meter XX12)		720
721	Print Summary	Enter: "0" Summary w/Report "1" No Summary w/Report "2" Summary Only "3" User Configured Report		721
722	Delivery Report	To be read only. Displays the current setup of the Delivery Report.		722
723-739		Unassigned at Present		723-739
740	Protection of Program Codes 780-789	Enter: "0" for Weights and Measures Mode "1" for Program Mode		740

Program Code	Function	Description	Entry	Program Code
741	Communication Link Programming	Enter: "0" for No Program Code Values "1" for Program Values Only "2" for Program and Weights and Measures Values "3" for Alarm Reset Only	—	741
742	Communications Time-out	Enter: Three (3) digits in seconds that communication polling may be absent (e.g., 060) "000" disables the Communications Alarm Mode	— — —	742
743	Communications Alarm Mode	Enter: "0" Standby Mode "1" Communications Alarm Mode "2" Standby and Communications Alarm Mode	—	743
744	Prompt Time-out	Enter: Three (3) digits in seconds of time-out allowed with each prompt (e.g., 015)	— — —	744
<i>Note: Minimum time-out is 10 seconds.</i>				
745	Prompt Data Entry #1	Enter: Two (2) digits representing the prompt data response. First digit "0" = Displayed First digit "1" = Hidden Display Second digit "0 - 9" = Digits for prompt entry (e.g., 04)	— —	745
746	Prompt Data Entry #2	Enter: Two (2) digits representing the prompt data response. First digit "0" = Displayed First digit "1" = Hidden Display Second digit "0 - 9" = Digits for prompt entry (e.g., 15)	— —	746
747	Prompt Data Entry #3	Enter: Two (2) digits representing the prompt data response. First digit "0" = Displayed First digit "1" = Hidden Display Second digit "0 - 9" = Digits for prompt entry (e.g., 15)	— —	747
748	Prompt Data Entry #4	Enter: Two (2) digits representing the prompt data response. First digit "0" = Displayed First digit "1" = Hidden Display Second digit "0 - 9" = Digits for prompt entry (e.g., 16)	— —	748
749	Prompt Data Entry #5	Enter: Two (2) digits representing the prompt data response. First digit "0" = Displayed First digit "1" = Hidden Display Second digit "0 - 9" = Digits for prompt entry (e.g., 16)	— —	749

Program Code	Function	Description	Entry	Program Code
750	Start Key Enable/Disable	Enter: "0" Start Key Enabled "1" Start Key Disabled	—	750
751	Shared Printer Out Alarm	Enter: "0" for No SP Alarm "1" for Local SP Alarm "2" for Program SP Alarm	—	751
752	Shared Printer Out Timer	Enter: Two (2) digits in minutes of time that the AccuLoad II will wait before Alarming.	— —	752
753	EIA-232 Printer Security	Enter: "0" No 232 Security "1" XON/XOFF "2" DEC Protocol "3" PTB - FX Protocol "4" PTB - LQ Protocol	—	753
754	EIA-485 Printer Security	Enter: "0" No 485 Security "1" XON/XOFF "2" DEC Protocol "3" PTB - FX Protocol "4" PTB - LQ Protocol	—	754
755	Shared Printer Security Alarm	Enter: "0" No Security Alarm "1" Local Security Alarm "2" Prg Security Alarm	—	755

Note: Used with DEC Security.

756	Select Volumes to Print	Enter: Five (5) digit number indicating the totals that will be printed on the Product Receipt Ticket. 1st digit - Raw Totals 2nd digit - Gross Totals 3rd digit - Gross at Standard Temperature Totals 4th digit - Net Totals 5th digit - Mass Totals A zero (0) in the digit indicates the total will not be printed, a one (1) indicates the total will be printed. (e.g., 01100 indicates that Gross totals and the Gross at Standard Temperature will be printed on the Product Receipt Ticket.)	— — — — —	756
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Note: The current load ticket can have all five of the volumes printed on it. However, any reprint of that load ticket will only contain the volumes that have been selected for local storage in code 307 and in this program code.

Program Code	Function	Description	Entry	Program Code
757	Select Load Averages to Print	<p>Enter: Two (2) digit number indicating the load averages that will be printed on the Product Receipt Ticket.</p> <p>1st digit - Load Average Temperature 2nd digit - Load Average Density</p> <p>A zero (0) in the digit indicates the load average will not be printed, a one (1) indicates the load average will be printed. (e.g., 11 indicates that the Load Average Temperature and the Load Average Density will be printed on the Product Receipt Ticket.)</p>	__ __	757
758	Select the Additive Volumes to Print	<p>Enter: Seven (7) digit number indicating the additive volumes that will be printed on the Product Receipt Ticket.</p> <p>1st digit - Additive Volume #1 2nd digit - Additive Volume #2 3rd digit - Additive Volume #3 4th digit - Additive Volume #4 5th digit - Additive Volume #5 6th digit - Additive Volume #6 7th digit - Additive Volume #7</p> <p>A zero (0) in the digit indicates the additive volume will not be printed, a one (1) indicates the additive volume will be printed. (e.g., 1010000 indicates that Additive Volume #1 and Additive Volume #3 will be printed on the Product Receipt Ticket.)</p>	__ __ __ __ __ __ __	758

Program Code	Function	Description	Entry	Program Code
781	Print Transaction	Enter: Three (3) digit Transaction Number to print the transaction data desired. (e.g., 010 will print the tenth transaction back from the current transaction.)	— — —	781
782	Prompts Printed	Enter: "0" Standby Blank "1" Standby Print "2" Always Print	—	782
783-799	Unassigned at Present			783-799
800	System Input/Output Directory			800
801	Additive Injector Stop	Enter: "0" Additive stop at end of batch (Injector Option 1) "1" Additive stop at First trip point with no recalculation (Injector Option 2) "2" Additive stop at First trip point with recalculation (Injector Option 3) "3" Additive stop at Additive Injector stop volume with no recalculation of additive (Injector Option 4) "4" Additive Stop at Additive Injector stop volume with recalculation of additive (Injector Option 5)	—	801
802	Additive Injector Output	Enter: "0" for Raw Output "1" for Gross Output "2" for Gst Output "3" for Net Output	—	802
803	Manual/Auto Additive Injector Selection	Enter: "0" for Auto Injectors "1" for Manual Injectors when in the Standby Mode. "2" for Manual Injectors per transaction. "3" for Manual Injectors per batch.	—	803
804	Restart After Valve Power Restored	Enter: "0" Manual Valve Start "1" Auto Valve Start	—	804
805	Valve Power Sense Permissive Message	Enter: Up to twenty (20) characters for prompt message (e.g., Permissive Not Met)	_____	805
806	Permissive #1	Enter: "0" No Permissive 1 "1" Permissive 1 Transaction Start Only "2" Permissive 1 Continuously "3" Start Permissive 1 "4" Batch Permissive 1 "5" Remote Start	—	806

Note: Option 5 requires hardware jumpers (see Installation Manual MN06105).

Program Code	Function	Description	Entry	Program Code
807	Permissive #1 Message	Enter: Up to twenty (20) characters for prompt message (e.g., Connect Ground)	_____	807
808	Restart After Permissive Met	Enter: "0" Man Perm. 1 Start "1" Auto Perm. 1 Start	___	808
809	Prompt Message	Enter: Up to twenty (20) characters for prompt message if no ac power is detected on the ac input programmed for Printer Tray Switch (e.g., Please Insert Ticket)	_____	809
810	Permissive #2	Enter: "0" No Permissive 2 "1" Permissive 2 Transaction Start Only "2" Permissive 2 Continuously "3" Start Permissive 2 "4" Batch Permissive 2 "5" Remote Stop	___	810
<i>Note: Option 5 requires hardware jumpers (See Installation Manual MN06105).</i>				
811	Permissive #2 Message	Enter: Up to twenty (20) characters for prompt message (e.g., Connect Vapor)	_____	811
812	Restart After Permissive	Enter: "0" Man Perm. 2 Start "1" Auto Perm. 2 Start	___	812
813	Additive Feedback Alarm Message	Enter: Up to twenty characters for an additive feedback alarm message. This message will be displayed at the end of the batch if code 864 is programmed "1" (e.g., Additive Failure).	_____	813
814	Additive Injector Stop Volume	Enter: Three digits in whole units of remaining volume to be loaded when the additive injectors will be stopped (e.g., 75)	___ _ _	814
815-839	Unassigned at Present			815-839
840	Protection of Program Codes 880-889	Enter: "0" for Weights and Measures Mode "1" for Program Mode	___	840
841	Additive Injector #1 Feedback	Enter: "0" No Injector 1 Feedback "1" Injector 1 Feedback/Control "2" INJ1 Feedback Only	___	841
842	Additive Injector #2 Feedback	Enter: "0" No Injector 2 Feedback "1" Injector 2 Feedback/Control "2" Injector 2 Feedback Only	___	842
843	Additive Injector #3 Feedback	Enter: "0" No Injector 3 Feedback "1" Injector 3 Feedback/Control "2" Injector 3 Feedback Only	___	843

Program Code	Function	Description	Entry	Program Code
844	Additive Injector #4 Feedback	Enter: "0" No Injector 4 Feedback "1" Injector 4 Feedback/Control "2" Injector 4 Feedback Only	—	844
845	Additive Injector #5 Feedback	Enter: "0" No Injector 1 Feedback "1" Injector 1 Feedback/Control "2" INJ1 Feedback Only	—	845
846	Additive Injector #6 Feedback	Enter: "0" No Injector 2 Feedback "1" Injector 2 Feedback/Control "2" Injector 2 Feedback Only	—	846
847	Additive Injector #7 Feedback	Enter: "0" No Injector 3 Feedback "1" Injector 3 Feedback/Control "2" Injector 3 Feedback Only	—	847
848	Injector Units	Enter: Three (3) character message identifying the injector units (e.g., Ozs)	— — —	848
Note: This code not used with Smart Additive Subsystems.				
849	Additive Injector Feedback Errors	Enter: Two (2) digits defining the number of errors before alarming	— —	849
Note: This code not used with Smart Additive Subsystems.				
850	Injector #1 Feedback Delay	Enter: Three (3) digits in seconds allowed between feedbacks before an alarm.	— — —	850
Note: This code not used with Smart Additive Subsystems.				
851	Injector #2 Feedback Delay	Enter: Three (3) digits in seconds allowed between feedbacks before an alarm.	— — —	851
Note: This code not used with Smart Additive Subsystems.				
852	Injector #3 Feedback Delay	Enter: Three (3) digits in seconds allowed between feedbacks before an alarm.	— — —	852
Note: This code not used with Smart Additive Subsystems.				
853	Injector #4 Feedback Delay	Enter: Three (3) digits in seconds allowed between feedbacks before an alarm.	— — —	853
Note: This code not used with Smart Additive Subsystems.				
854	Injector #5 Feedback Delay	Enter: Three (3) digits in seconds allowed between feedbacks before an alarm.	— — —	854
Note: This code not used with Smart Additive Subsystems.				
855	Injector #6 Feedback Delay	Enter: Three (3) digits in seconds allowed between feedbacks before an alarm.	— — —	855
Note: This code not used with Smart Additive Subsystems.				

Program Code	Function	Description	Entry	Program Code
856	Injector #7 Feedback Delay	Enter: Three (3) digits in seconds allowed between feedbacks before an alarm.	___ _	856
<i>Note: This code not used with Smart Additive Subsystems.</i>				
857	Additive Feedback Alarm	Enter: "0" Additive Feedback Alarm with Shut-down. "1" Additive Feedback Alarm Message at the End of the Batch with No Shut-down.	—	857
858	Additive Totals Units	Enter: "0" Gallons "1" Liters	—	858
<i>Note: If a Smart Additive Subsystem is selected, this code will be used rather than 855.</i>				
859-899	Unassigned at Present			859-899
900	System Diagnostic Directory			900
901	Diagnostic	Display Test	None	901
902	Diagnostic	Keypad Test	None	902
903	Diagnostic	RTD Test	None	903
904	Diagnostic	4 - 20 mA Channel 1	None	904
905	Diagnostic	4 - 20 mA Channel 2	None	905
906	Diagnostic	Internal Temperature	None	906
907	Diagnostic	Power Supply Test	None	907
908	Diagnostic	Firmware Version	None	908
909	Diagnostic	AccuLoad II Model Number	Read Only	909
910	Diagnostic	ACM Model Number	Read Only	910
911	Diagnostic	System Messages		911
912	Diagnostic	Calibration Event Counter	None	912
913	Diagnostic	Configuration Event Counter	None	913
914-939	Unassigned at Present			914-939
940	Protection of Program Codes 980-989	Enter: "0" for Weights and Measures Mode "1" for Program Mode	—	940
941	Diagnostic	Communication Test - EIA-232 No Echo Back	None	941
942	Diagnostic	Communication Test - EIA-232 With Echo	None	942
943	Diagnostic	Communication Test - EIA-485 No Echo Back	None	943
944	Diagnostic	Communication Test - EIA-485 With Echo	None	944
945	Diagnostic	SINGL CH-INV-1X-ACT-U	None	945
946	Diagnostic	SINGL CH-INV-2X-ACT-U	None	946
947	Diagnostic	DUAL CH-INV-1X-ACT-U	None	947
948	Diagnostic	DUAL CH-INV-1X-CTA-U	None	948
949	Diagnostic	DUAL CH-INV-2X-ACT-U	None	949
950	Diagnostic	DUAL CH-INV-1X-ACT-U	None	950
951	Diagnostic	DUAL CH-INV-1X-ACT-D	None	951

Program Code	Function	Description	Entry	Program Code
952	Diagnostic	Contact Input Test	None	952
953	Diagnostic	High Speed Prover	None	953
954	Diagnostic	Ticket Print 1 Test	None	954
955	Diagnostic	Ticket Print 2 Test	None	955
956	Diagnostic	Clear Local Storage	None	956
957	Diagnostic	Contact Output	None	957
958	Diagnostic	Clear Configurable Report	None	958
959-990		Unassigned at Present	None	959-990
991	Diagnostic	Relay Test	None	991
992	Diagnostic	Ram Test	None	992
993	Diagnostic	Power-up Diagnostics	None	993
994	Diagnostic	See Service Manual	None	994
995	Diagnostic	See Service Manual	None	995
996	Diagnostic	Watchdog	None	996
997	Diagnostic	Relay Select Test	None	997
998	Diagnostic	Copies Codes (Side #1 to Side #2)	None	998
999	Diagnostic	Programs EEPROM/Default Parameters	None	999

Program Code	Function	Code Description	Prod 1	Prod 2	Prod 3	Prod 4
Product Directories						
100	Product General Purpose Directory					
101-139	Unassigned at Present					
140	Protection of Program Codes 180 - 189	Enter: "0" for Weights and Measures Mode "1" for Program Mode	__	__	__	__
141	Product Selection	Enter: "0" for Product in Use "1" for Product Not in Use	__	__	__	__
142-179	Unassigned at Present					
180	Product Message	Enter: Up to nine (9) characters for meter or product identifier (e.g., Regular)	Prod 1 _____	Prod 2 _____	Prod 3 _____	Prod 4 _____
181-199	Unassigned at Present					
200	Product Flow Control Directory					
201	Excess Flow Rate	Enter: Two (2) digits as a percentage (e.g., 10) "00" Disables the High Flow Alarm	__	__	__	__
202	Minimum Flow Rate	Enter: Three (3) digits in whole units (e.g., 080)	__	__	__	__
203	Block Valve Type	Enter: "0" Hydraulic Block Valve "1" Electric Block Valve	__	__	__	__
204	First High Flow Rate	Enter: Four (4) digits in whole units (e.g., 0600) "0000" Entry will not allow the valve to open	__	__	__	__
205	Flow Tolerance	Enter: One (1) digit as a percentage of First High Flow Rate (e.g., 7)	__	__	__	__
206	Second High Flow Rate	Enter: Four (4) digits in whole units (e.g., 0300) "0000" Entry will not allow the valve to open if configured for 1st/2nd High Flow.	__	__	__	__
207	First Trip Volume	Enter: Four (4) digits in whole units (e.g., 0050)	__	__	__	__
208	Final (Second) Trip Volume	Enter: Three (3) digits in tenth units (e.g., 01.0)	__.	__.	__.	__.
209	Final (Second) Trip Auto Adjust	Enter: One (1) digit which defines the number of runs to average. (e.g., 3)	__	__	__	__
210	Low Flow Rate Alarm Limit	Enter: Three (3) digits in whole units per minute (e.g., 050) "000" disables the alarm	__	__	__	__
211	Block Valve Delay to Close	Enter: Two (2) digits in seconds of delay time (e.g., 05)	__	__	__	__

Program Code	Function	Code Description	Prod 1	Prod 2	Prod 3	Prod 4
212	Block Valve Delay to Open	Enter: Two (2) digits in seconds of delay time (e.g., 05)	___	___	___	___
213-239		Unassigned at Present				
240	Protection of Program Codes 280-289	Enter: "0" for Weights and Measures Mode "1" for Program Mode	___	___	___	___
241	Block Valve Security	Enter: "0" for No Security "1" for Security	___	___	___	___
242-299		Unassigned at Present				
300		Volume Accuracy Directory				
301	Minimum Batch Volume	Enter: Five (5) digits in whole units (e.g., up to 99,999 units)	_____	_____	_____	_____
302-339		Unassigned at Present				
340	Protection of Program Codes 380-389	Enter: "0" for Weights and Measures Mode "1" for Program Mode	___	___	___	___
341	Flow Rate for Meter Factor #1	Enter: Four (4) digits in whole units per minute (e.g., 0600)	_____	_____	_____	_____
342	Meter Factor #1	Enter: Five (5) digits as one (1) whole number followed by four (4) decimals (e.g., 1.0033)	-._____	-._____	-._____	-._____
343	Flow Rate for Meter Factor #2	Enter: Four (4) digits in whole units per minute (e.g., 0400)	_____	_____	_____	_____
<i>Note: If the flow rate is set at zero the AccuLoad II will ignore codes 344 through 348.</i>						
344	Meter Factor #2	Enter: Five (5) digits as one (1) whole number followed by four (4) decimals (e.g., 1.0040)	-._____	-._____	-._____	-._____
345	Flow Rate for Meter Factor #3	Enter: Four (4) digits in whole units per minute (e.g., 0150)	_____	_____	_____	_____
<i>Note: If the flow rate is set at zero the AccuLoad II will ignore codes 346 through 348.</i>						
346	Meter Factor #3	Enter: Five (5) digits as one (1) whole number followed by four (4) decimals (e.g., 1.0048)	-._____	-._____	-._____	-._____
347	Flow Rate for Meter Factor #4	Enter: Four (4) digits in whole units per minute (e.g., 0080)	_____	_____	_____	_____
<i>Note: If the flow rate is set at zero the AccuLoad II will ignore code 348.</i>						
348	Meter Factor #4	Enter: Five (5) digits as one (1) whole number followed by four (4) decimals (e.g., 1.0058)	-._____	-._____	-._____	-._____
349	Meter Factor % Change/Deg.	Enter: Five (5) digits representing the meter factor percent change per degree of unit temperature in percentage, (e.g., 0.0012)	-._____	-._____	-._____	-._____

Program Code	Function	Code Description	Prod 1	Prod 2	Prod 3	Prod 4
350	Meter Factor Reference Temperature	Enter: Four (4) digits representing the temperature that the percent meter factor variation was determined, Three (3) whole units and one (1) decimal in degrees (i.e., 120.1)	_____	_____	_____	_____
351-389			Unassigned at Present			
390	Master Meter Factor	Enter: Five (5) digits as one (1) whole number followed by four (4) decimals (e.g., 1.0040) Restricts meter factors 1 through 4, Program codes 353, 355 357, and 359 to +/- 2% of this entry. Enter 0.0000 to disable this feature.	_____	_____	_____	_____
391	Linearized Factor Deviation	Enter: Three (3) digits in a percentage, one (1) whole number followed by two (2) decimals (e.g., 3.40). Restricts deviation between adjacent meter factors. Enter 0.00 to disable this feature.	_____	_____	_____	_____
392	Meter Factor Variation	Enter: "0" No Meter Factor Variation "1" Yes Meter Factor Variation	___	___	___	___
393-399			Unassigned at Present			
400			Temperature & Density Directory			
401-439			Unassigned at Present			
440	Protection of Program Codes 480-489	Enter: "0" for Weights and Measures Mode "1" for Program Mode	___	___	___	___
441	API Table & Product	Enter: "00" No API Table "12" API Table 24A "01" API Table 5A "13" API Table 24B "02" API Table 5B "14" API Table 24D "03" API Table 5D "15" API Table 53A "04" API Table 6A "16" API Table 53B "05" API Table 6B "17" API Table 53D "06" API Table 6C "18" API Table 54 "07" API Table 6D "19" API Table 54A "08" API Table 23A "20" API Table 54B "09" API Table 23B "21" API Table 54C "10" API Table 23D "22" API Table 54D "11" API Table 24	___	___	___	___
442	Reference Density	Enter: Five (5) digit density with floating decimal. (e.g., 0999.9 to 0.9999 depending on selection in code 441).	_____	_____	_____	_____

Program			Prod 1	Prod 2	Prod 3	Prod 4
Code	Function	Code Description				
443	Low Temperature Alarm	Enter: Four (4) digits. The first digit indicates polarity. First digit "0" = Positive First digit "1" = Negative The last three (3) digits indicate temperature in whole degrees. (e.g., 0020 = + 020) Temperature units are dependent on entry made in code 441. An entry of -999 will disable this feature.	_____	_____	_____	_____
444	High Temperature Alarm	Enter: Four (4) digits. The first digit indicates polarity. First digit "0" = Positive First digit "1" = Negative The last three (3) digits indicate temperature in whole degrees. (e.g., 0250 = + 250) Temperature units are dependent on entry made in code 441. An entry of 0999 (+999) will disable this feature.	_____	_____	_____	_____
445	Maintenance Temperature	Enter: Five (5) digits. The first digit indicates polarity. First digit "0" = Positive First digit "1" = Negative The last four (4) digits indicate temperature in tenths of degrees. An entry of -999.9 will disable this feature. (e.g., 0085.0 = + 85.0)	_____.	_____.	_____.	_____.
Note: Any entry other than -999.9 will override the RTD or 4-20 mA Temperature Input and will be used in all calculations using the temperature factor.						
446	Low Density Alarm	Enter: Four (4) digits. The range is from 0000 to 9999. Density units are dependent on entry made in code 445 of the Systems Directory. An entry of 0000 will disable this feature.	_____	_____	_____	_____
447	High Density Alarm	Enter: Four (4) digits. The range is from 0000 to 9999. Density units are dependent on entry made in code 445 of the Systems Directory. An entry of 0000 will disable this feature.	_____	_____	_____	_____
448-499	Unassigned at Present					

Program Code	Function	Code Description	Prod 1	Prod 2	Prod 3	Prod 4
500	Pressure Directory					
501	Minimum Back Pressure Flow Rate Setting	Enter: Four (4) digits to select the minimum flow rate allowed during back pressure operation in whole units per minute. (e.g., 0100) "0000" disables the alarm	_____	_____	_____	_____
502	Differential Pressure	Enter: Three (3) digits of differential pressure in units of psia, bars, or kg/cm ² that is to be maintained above the vapor pressure or back pressure (e.g., 060). Unit selection is made in code 541 of the Systems Directory.	_____	_____	_____	_____
503	Minimum Back Pressure Flow Rate Timer Setting	Enter: Two (2) digits in seconds to achieve a desired flow rate (e.g., 20). "00" disables this minimum flow rate timer and the back pressure reduction in code 504.	_____	_____	_____	_____
504	BP Reduction	Enter: Two (2) digits in % reduction of flow rate for back pressure flow control and AFO (e.g., 80, Range 50% - 90%)	_____	_____	_____	_____
505	Low Pressure Alarm	Enter: Four (4) digits indicating the pressure reading that will generate a low pressure alarm. The range is from 0000 to 9999. Pressure units are dependent on entry made in code 541 of the Systems Directory. An entry of 0000 will disable this feature.	_____	_____	_____	_____
506	High Pressure Alarm	Enter: Four (4) digits indicating the pressure reading that will generate a high pressure alarm. The range is from 0000 to 9999. Pressure units are dependent on entry made in code 541 of the Systems Directory. An entry of 0000 will disable this feature.	_____	_____	_____	_____
507-539	Unassigned at Present					
540	Protection of Program Codes 580-589	Enter: "0" for Weights and Measures Mode "1" for Program Mode	_____	_____	_____	_____
541	Compressibility Factor	Enter: Five (5) digit compressibility factor used in calculating the CPL (e.g., 39600 entered represents 0.000039600)	_____	_____	_____	_____
542	Vapor Pressure Calculation	Enter: "0" Straight Line Approximation "1" GPA Table TP-15	_____	_____	_____	_____

Program Code	Function	Code Description	Prod 1	Prod 2	Prod 3	Prod 4
543	Low Vapor (P1) Pressure	Enter: Four (4) digits indicating the low vapor pressure in PSIA, Bars or kg/cm ² in tenths of pressure units, (e.g., 006.0). Pressure units are dependent on entry made in code 541 of Systems Directory.	_____	_____	_____	_____
544	Low Product Vapor Pressure (P1) Temperature	Enter: Four (4) digits in Degrees C or Degrees F that corresponds to the low vapor pressure in code 543. First digit "0" = Plus Degrees First digit "1" = Minus Degrees (e.g., 1150=-150). Temperature units are dependent on entry made in code 441 of the Systems Directory.	_____	_____	_____	_____
545	Middle Vapor Pressure (P2)	Enter: Four (4) digits indicating the middle vapor pressure in PSIA, Bars or kg/cm ² in tenths of pressure units, (e.g., 020.0). Pressure units are dependent on entry made in code 541 of the Systems Directory.	_____	_____	_____	_____
Note: This entry must exceed the entry made in 543 or it will be ignored.						
546	Middle Product Vapor Pressure (P2) Temperature	Enter: Four (4) digits in Degrees C or Degrees F that corresponds to the middle vapor pressure in code 545. First digit "0" = Plus Degrees First digit "1" = Minus Degrees (e.g., 0030 = +030). Temperature units are dependent on entry made in code 441 of the Systems Directory.	_____	_____	_____	_____
547	High Vapor Pressure (P3)	Enter: Four (4) digits indicating the high vapor pressure in PSIA, Bars or kg/cm ² in tenths of pressure units, (e.g., 100.0). Pressure units are dependent on entry made in code 541 of the Systems Directory.	_____	_____	_____	_____
Note: This entry must not exceed the entry made in 545 or it will be ignored.						
548	High Product Vapor Pressure (P3) Temperature	Enter: Four (4) digits in Degrees C or Degrees F that corresponds to the high vapor pressure in code 546. First digit "0" = Plus Degrees First digit "1" = Minus Degrees (e.g., 0600 = +060). Temperature units are dependent on entry made in code 441 of the Systems Directory.	_____	_____	_____	_____

Program Code	Function	Code Description	Prod 1	Prod 2	Prod 3	Prod 4
549	Maintenance Pressure	Enter: Four (4) digit maintenance pressure to be used when a pressure transducer is not installed, in tenths of units (e.g., 150.0) Pressure units dependent on selection made in code 541 of the Systems Directory. "0000" disables this feature.				
550-599		Unassigned at Present				
600		Read Only Directory				
601	Raw Non-resettable Totals	To be read only	None			
602	Gross Non-resettable Totals	To be read only	None			
603	Gross at Standard Temp. Non-resettable Totals	To be read only	None			
604	Net Non-resettable Totals	To be read only	None			
605	Mass Non-resettable Totals	To be read only	None			
606	Load Average Temperature	To be read only	None			
607	Load Average Pressure	To be read only	None			
608	Load Average Density	To be read only	None			
609-639		Unassigned at Present				
640	Protection of Program Codes 680-689	Enter: "0" for Weights and Measures Mode "1" for Program Mode				
641-699		Unassigned at Present				
700		Communications Directory				
701	HM Classification	Enter: First 20 characters of the classification. Prod1 _____ Prod2 _____ Prod3 _____ Prod4 _____				
702	HM Classification	Enter: Second 20 characters of the classification. Prod1 _____ Prod2 _____ Prod3 _____ Prod4 _____				
703	HM Classification	Enter: Last 20 characters of the classification. Prod1 _____ Prod2 _____ Prod3 _____ Prod4 _____				

Program Code	Function	Code Description	Prod 1	Prod 2	Prod 3	Prod 4
704-739		Unassigned at Present				
740	Protection of Program Codes 780-789	Enter: "0" for Weights and Measures Mode "1" for Program Mode	—	—	—	—
741-799		Unassigned at Present				
800		Inputs & Outputs Directory				
801-839		Unassigned at Present				
840	Protection of Program Codes 880-889	Enter: "0" for Weights and Measures Mode "1" for Program Mode	—	—	—	—
841-899		Unassigned at Present				
900		Diagnostics Directory				
901-939		Unassigned at Present				
940	Protection of Program Codes 980-989	Enter: "0" for Weights and Measures Mode "1" for Program Mode	None	—	—	—
941-999		Unassigned at Present				

Program Code	Function Code	Description	Entry	Program Code
<i>Blend Recipe Directories</i>				
__00		<i>Blend Recipe # __ Directory</i>		__00
__01	Blend Recipe	Enter: "0" Recipe Not Used "1" Manual Recipe "2" Auto Recipe	__	__01
__02	Blend Recipe Name	Enter: Up to nine (9) characters for meter or product identifier. _____		__02
__03	Product using Injector #1	Enter: Four (4) digit number indicating the products this injector is used with. 1st digit - Product 1 2nd digit - Product 2 3rd digit - Product 3 4th digit - Product 4 A zero (0) in the digit indicates the injector will not be used with that product, a one (1) indicates the injector will be used with that product. (e.g., 0100 indicates that this injector is used with product 2 only). _____		__03
__04	Product using Injector #2	Enter: Four (4) digit number indicating the products this injector is used with. 1st digit - Product 1 2nd digit - Product 2 3rd digit - Product 3 4th digit - Product 4 A zero (0) in the digit indicates the injector will not be used with that product, a one (1) indicates the injector will be used with that product. (e.g., 0100 indicates that this injector is used with product 2 only). _____		__04

Program Code	Function Code	Description	Entry	Program Code
__05	Product using Injector #3	<p>Enter: Four (4) digit number indicating the products this injector is used with.</p> <p>1st digit - Product 1 2nd digit - Product 2 3rd digit - Product 3 4th digit - Product 4</p> <p>A zero (0) in the digit indicates the injector will not be used with that product, a one (1) indicates the injector will be used with that product. (e.g., 0100 indicates that this injector is used with product 2 only).</p>	__ __ __ __	__05
__06	Product using Injector #4	<p>Enter: Four (4) digit number indicating the products this injector is used with.</p> <p>1st digit - Product 1 2nd digit - Product 2 3rd digit - Product 3 4th digit - Product 4</p> <p>A zero (0) in the digit indicates the injector will not be used with that product, a one (1) indicates the injector will be used with that product. (e.g., 0100 indicates that this injector is used with product 2 only).</p>	__ __ __ __	__06
__07	Product using Injector #5	<p>Enter: Four (4) digit number indicating the products this injector is used with.</p> <p>1st digit - Product 1 2nd digit - Product 2 3rd digit - Product 3 4th digit - Product 4</p> <p>A zero (0) in the digit indicates the injector will not be used with that product, a one (1) indicates the injector will be used with that product. (e.g., 0100 indicates that this injector is used with product 2 only).</p>	__ __ __ __	__07

Program Code	Function Code	Description	Entry	Program Code
__08	Product using Injector #6	Enter: Four (4) digit number indicating the products this injector is used with. 1st digit - Product 1 2nd digit - Product 2 3rd digit - Product 3 4th digit - Product 4 A zero (0) in the digit indicates the injector will not be used with that product, a one (1) indicates the injector will be used with that product. (e.g., 0100 indicates that this injector is used with product 2 only).	____	__08
__09	Product using Injector #7	Enter: Four (4) digit number indicating the products this injector is used with. 1st digit - Product 1 2nd digit - Product 2 3rd digit - Product 3 4th digit - Product 4 A zero (0) in the digit indicates the injector will not be used with that product, a one (1) indicates the injector will be used with that product. (e.g., 0100 indicates that this injector is used with product 2 only).	____	__09
__10	Recipe Raw Non-resettable Totals	To be read only		__10
__11	Recipe Gross Non-resettable Totals	To be read only	None	__11
__12	Recipe Gross at Standard Temp. Non-resettable Totals	To be read only	None	__12
__13	Recipe Net Non-resettable Totals	To be read only	None	__13
__14	Recipe Mass Non-resettable Total	To be read only	None	__14

Program Code	Function Code	Description	Entry	Program Code
__15	HM Classification	Enter: "1" Product 1 "2" Product 2 "3" Product 3 "4" Product 4	—	__15
__16	Minimum Preset	To be read only		__16
__17-__39		Unassigned at Present		__17-__39
__40	Protection of Program Codes __80-__89	Enter: "0" for Weights and Measures Mode "1" for Program Mode	—	__40
__41	Blend Preset Display	Enter: "0" Raw Preset (Raw) "1" Gross Preset (Grs) "2" Gross Preset at Standard Temperature (Gst) "3" Gross Preset at Standard Temperature and Pressure (Net) "4" Mass Preset	—	__41
__42	Blend Deliver Display	Enter: "0" Raw Delivery (Raw) "1" Gross Delivery (Grs) "2" Gross Delivery at Standard Temperature (Gst) "3" Gross Delivery at Standard Temperature and Pressure (Net) "4" Mass Delivery	—	__42
__43	First Component Number to Deliver	Enter: "0" Not Used "1" Product 1 "2" Product 2 "3" Product 3 "4" Product 4	—	__43
__44	First Component Percentage	Enter: Four (4) digits in tenth of a percent (e.g., 050.0).	— — — —	__44
Note: Codes __42, __44, __46, __48 and __50 must add up to 100%.				
__45	Second Component Number to Deliver	Enter: "0" Not Used "1" Product 1 "2" Product 2 "3" Product 3 "4" Product 4	—	__45
__46	Second Component Percentage	Enter: Four (4) digits in tenth of a percent (e.g., 050.0).	— — — —	__46
Note: Codes __42, __44, __46, __48 and __50 must add up to 100%.				
__47	Third Component Number to Deliver	Enter: "0" Not Used "1" Product 1 "2" Product 2 "3" Product 3 "4" Product 4	—	__47
__48	Third Component Percentage	Enter: Four (4) digits in tenth of a percent (e.g., 050.0).	— — — —	__48
Note: Codes __42, __44, __46, __48 and __50 must add up to 100%.				

Program Code	Function Code	Description	Entry	Program Code
__49	Fourth Component Number to Deliver	Enter: "0" Not Used "1" Product 1 "2" Product 2 "3" Product 3 "4" Product 4	___	__49
__50	Fourth Component Percentage	Enter: Four (4) digits in tenth of a percent (e.g., 050.0).	___ . ___	__50
<i>Note: Codes __42, __44, __46, __48 and __50 must add up to 100%.</i>				
__51	Fifth Component Number to Deliver	Enter: "0" Not Used "1" Product 1 "2" Product 2 "3" Product 3 "4" Product 4	___	__51
__52	Fifth Component Percentage	Enter: Four (4) digits in tenth of a percent (e.g., 050.0).	___ . ___	__52
<i>Note: Codes __42, __44, __46, __48 and __50 must add up to 100%.</i>				
__53	Additive Injector #1 Volume	Enter: Six (6) digits defining the volume of additive to be injected for each Additive Injector cycle (e.g., 001.000)	___ . ___	__53
<i>Note: Only one decimal place for Smart Additive Injectors.</i>				
__54	Additive Injector #2 Volume	Enter: Six (6) digits defining the volume of additive to be injected for each Additive Injector cycle (e.g., 001.000)	___ . ___	__54
<i>Note: Only one decimal place for Smart Additive Injectors.</i>				
__55	Additive Injector #3 Volume	Enter: Six (6) digits defining the volume of additive to be injected for each Additive Injector cycle (e.g., 001.000)	___ . ___	__55
<i>Note: Only one decimal place for Smart Additive Injectors.</i>				
__56	Additive Injector #4 Volume	Enter: Six (6) digits defining the volume of additive to be injected for each Additive Injector cycle (e.g., 010.000)	___ . ___	__56
<i>Note: Only one decimal place for Smart Additive Injectors.</i>				
__57	Additive Injector #5 Volume	Enter: Six (6) digits defining the volume of additive to be injected for each Additive Injector cycle (e.g., 001.000)	___ . ___	__57
<i>Note: Only one decimal place for Smart Additive Injectors.</i>				
__58	Additive Injector #6 Volume	Enter: Six (6) digits defining the volume of additive to be injected for each Additive Injector cycle (e.g., 001.000)	___ . ___	__58
<i>Note: Only one decimal place for Smart Additive Injectors.</i>				

Program Code	Function Code	Description	Entry	Program Code
__59	Additive Injector #7 Volume	Enter: Six (6) digits defining the volume of additive to be injected for each Additive Injector cycle (e.g., 001.000)	__ _ _ . __ _ _	__59
<i>Note: Only one decimal place for Smart Additive Injectors.</i>				
__80	Additive Injector Pulser No. 1	Enter: Three (3) digits in whole units defining the amount of mainstream product for each injection cycle. (e.g., 040)	__ _ _	__80
__81	Additive Injector Pulser No. 2	Enter: Three (3) digits in whole units defining the amount of mainstream product for each injection cycle. (e.g., 040)	__ _ _	__81
__82	Additive Injector Pulser No. 3	Enter: Three (3) digits in whole units defining the amount of mainstream product for each injection cycle. (e.g., 040)	__ _ _	__82
__83	Additive Injector Pulser No. 4	Enter: Three (3) digits in whole units defining the amount of mainstream product for each injection cycle. (e.g., 040)	__ _ _	__83
__84	Additive Injector Pulser No. 5	Enter: Three (3) digits in whole units defining the amount of mainstream product for each injection cycle. (e.g., 040)	__ _ _	__84
__85	Additive Injector Pulser No. 6	Enter: Three (3) digits in whole units defining the amount of mainstream product for each injection cycle. (e.g., 040)	__ _ _	__85
__86	Additive Injector Pulser No. 7	Enter: Three (3) digits in whole units defining the amount of mainstream product for each injection cycle. (e.g., 040)	__ _ _	__86

Code	Recipe 1	Recipe 2	Recipe 3	Recipe 4
_01	—	—	—	—
_02	—————	—————	—————	—————
_03	-----	-----	-----	-----
_04	-----	-----	-----	-----
_05	-----	-----	-----	-----
_06	-----	-----	-----	-----
_07	-----	-----	-----	-----
_08	-----	-----	-----	-----
_09	-----	-----	-----	-----
_10	Read Only	Read Only	Read Only	Read Only
_11	Read Only	Read Only	Read Only	Read Only
_12	Read Only	Read Only	Read Only	Read Only
_13	Read Only	Read Only	Read Only	Read Only
_14	Read Only	Read Only	Read Only	Read Only
_15	—	—	—	—
_16	Read Only	Read Only	Read Only	Read Only
_40	—	—	—	—
_41	—	—	—	—
_42	—	—	—	—
_43	—	—	—	—
_44	-----.	-----.	-----.	-----.
_45	—	—	—	—
_46	-----.	-----.	-----.	-----.
_47	—	—	—	—
_48	-----.	-----.	-----.	-----.
_49	—	—	—	—
_50	-----.	-----.	-----.	-----.
_51	—	—	—	—
_52	-----.	-----.	-----.	-----.

Code	Recipe 1	Recipe 2	Recipe 3	Recipe 4
__53	____.____	____.____	____.____	____.____
__54	____.____	____.____	____.____	____.____
__55	____.____	____.____	____.____	____.____
__56	____.____	____.____	____.____	____.____
__57	____.____	____.____	____.____	____.____
__58	____.____	____.____	____.____	____.____
__59	____.____	____.____	____.____	____.____
__80	____.____	____.____	____.____	____.____
__81	____.____	____.____	____.____	____.____
__82	____.____	____.____	____.____	____.____
__83	____.____	____.____	____.____	____.____
__84	____.____	____.____	____.____	____.____
__85	____.____	____.____	____.____	____.____
__86	____.____	____.____	____.____	____.____

Code	Recipe 5	Recipe 6	Recipe 7	Recipe 8
_01	—	—	—	—
_02	_____	_____	_____	_____
_03	-----	-----	-----	-----
_04	-----	-----	-----	-----
_05	-----	-----	-----	-----
_06	-----	-----	-----	-----
_07	-----	-----	-----	-----
_08	-----	-----	-----	-----
_09	-----	-----	-----	-----
_10	Read Only	Read Only	Read Only	Read Only
_11	Read Only	Read Only	Read Only	Read Only
_12	Read Only	Read Only	Read Only	Read Only
_13	Read Only	Read Only	Read Only	Read Only
_14	Read Only	Read Only	Read Only	Read Only
_15	—	—	—	—
_16	Read Only	Read Only	Read Only	Read Only
_40	—	—	—	—
_41	—	—	—	—
_42	—	—	—	—
_43	—	—	—	—
_44	-----·	-----·	-----·	-----·
_45	—	—	—	—
_46	-----·	-----·	-----·	-----·
_47	—	—	—	—
_48	-----·	-----·	-----·	-----·
_49	—	—	—	—
_50	-----·	-----·	-----·	-----·
_51	—	—	—	—
_52	-----·	-----·	-----·	-----·

Code	Recipe 5	Recipe 6	Recipe 7	Recipe 8
__53	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__54	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__55	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__56	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__57	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__58	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__59	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__80	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__81	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__82	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__83	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__84	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__85	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__86	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __

Code	Recipe 9	Recipe 10	Recipe 11	Recipe 12
_01	—	—	—	—
_02	—————	—————	—————	—————
_03	—————	—————	—————	—————
_04	—————	—————	—————	—————
_05	—————	—————	—————	—————
_06	—————	—————	—————	—————
_07	—————	—————	—————	—————
_08	—————	—————	—————	—————
_09	—————	—————	—————	—————
_10	Read Only	Read Only	Read Only	Read Only
_11	Read Only	Read Only	Read Only	Read Only
_12	Read Only	Read Only	Read Only	Read Only
_13	Read Only	Read Only	Read Only	Read Only
_14	Read Only	Read Only	Read Only	Read Only
_15	—	—	—	—
_16	Read Only	Read Only	Read Only	Read Only
_40	—	—	—	—
_41	—	—	—	—
_42	—	—	—	—
_43	—	—	—	—
_44	———·—	———·—	———·—	———·—
_45	—	—	—	—
_46	———·—	———·—	———·—	———·—
_47	—	—	—	—
_48	———·—	———·—	———·—	———·—
_49	—	—	—	—
_50	———·—	———·—	———·—	———·—
_51	—	—	—	—
_52	———·—	———·—	———·—	———·—

Code	Recipe 9	Recipe 10	Recipe 11	Recipe 12
__53	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__54	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__55	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__56	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__57	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__58	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__59	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__80	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__81	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__82	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__83	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__84	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__85	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__86	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __

Code	Recipe 13	Recipe 14	Recipe 15	Recipe 16
_01	—	—	—	—
_02	—————	—————	—————	—————
_03	—————	—————	—————	—————
_04	—————	—————	—————	—————
_05	—————	—————	—————	—————
_06	—————	—————	—————	—————
_07	—————	—————	—————	—————
_08	—————	—————	—————	—————
_09	—————	—————	—————	—————
_10	Read Only	Read Only	Read Only	Read Only
_11	Read Only	Read Only	Read Only	Read Only
_12	Read Only	Read Only	Read Only	Read Only
_13	Read Only	Read Only	Read Only	Read Only
_14	Read Only	Read Only	Read Only	Read Only
_15	—	—	—	—
_16	Read Only	Read Only	Read Only	Read Only
_40	—	—	—	—
_41	—	—	—	—
_42	—	—	—	—
_43	—	—	—	—
_44	———·—	———·—	———·—	———·—
_45	—	—	—	—
_46	———·—	———·—	———·—	———·—
_47	—	—	—	—
_48	———·—	———·—	———·—	———·—
_49	—	—	—	—
_50	———·—	———·—	———·—	———·—
_51	—	—	—	—
_52	———·—	———·—	———·—	———·—

Code	Recipe 13	Recipe 14	Recipe 15	Recipe 16
__53	_____ . ____	_____ . ____	_____ . ____	_____ . ____
__54	_____ . ____	_____ . ____	_____ . ____	_____ . ____
__55	_____ . ____	_____ . ____	_____ . ____	_____ . ____
__56	_____ . ____	_____ . ____	_____ . ____	_____ . ____
__57	_____ . ____	_____ . ____	_____ . ____	_____ . ____
__58	_____ . ____	_____ . ____	_____ . ____	_____ . ____
__59	_____ . ____	_____ . ____	_____ . ____	_____ . ____
__80	_____ . ____	_____ . ____	_____ . ____	_____ . ____
__81	_____ . ____	_____ . ____	_____ . ____	_____ . ____
__82	_____ . ____	_____ . ____	_____ . ____	_____ . ____
__83	_____ . ____	_____ . ____	_____ . ____	_____ . ____
__84	_____ . ____	_____ . ____	_____ . ____	_____ . ____
__85	_____ . ____	_____ . ____	_____ . ____	_____ . ____
__86	_____ . ____	_____ . ____	_____ . ____	_____ . ____

Code	Recipe 17	Recipe 18	Recipe 19	Recipe 20
_01	—	—	—	—
_02	—————	—————	—————	—————
_03	—————	—————	—————	—————
_04	—————	—————	—————	—————
_05	—————	—————	—————	—————
_06	—————	—————	—————	—————
_07	—————	—————	—————	—————
_08	—————	—————	—————	—————
_09	—————	—————	—————	—————
_10	Read Only	Read Only	Read Only	Read Only
_11	Read Only	Read Only	Read Only	Read Only
_12	Read Only	Read Only	Read Only	Read Only
_13	Read Only	Read Only	Read Only	Read Only
_14	Read Only	Read Only	Read Only	Read Only
_15	—	—	—	—
_16	Read Only	Read Only	Read Only	Read Only
_40	—	—	—	—
_41	—	—	—	—
_42	—	—	—	—
_43	—	—	—	—
_44	———·—	———·—	———·—	———·—
_45	—	—	—	—
_46	———·—	———·—	———·—	———·—
_47	—	—	—	—
_48	———·—	———·—	———·—	———·—
_49	—	—	—	—
_50	———·—	———·—	———·—	———·—
_51	—	—	—	—
_52	———·—	———·—	———·—	———·—

Code	Recipe 17	Recipe 18	Recipe 19	Recipe 20
__53	___ . ___	___ . ___	___ . ___	___ . ___
__54	___ . ___	___ . ___	___ . ___	___ . ___
__55	___ . ___	___ . ___	___ . ___	___ . ___
__56	___ . ___	___ . ___	___ . ___	___ . ___
__57	___ . ___	___ . ___	___ . ___	___ . ___
__58	___ . ___	___ . ___	___ . ___	___ . ___
__59	___ . ___	___ . ___	___ . ___	___ . ___
__80	___ . ___	___ . ___	___ . ___	___ . ___
__81	___ . ___	___ . ___	___ . ___	___ . ___
__82	___ . ___	___ . ___	___ . ___	___ . ___
__83	___ . ___	___ . ___	___ . ___	___ . ___
__84	___ . ___	___ . ___	___ . ___	___ . ___
__85	___ . ___	___ . ___	___ . ___	___ . ___
__86	___ . ___	___ . ___	___ . ___	___ . ___

Code	Recipe 21	Recipe 22	Recipe 23	Recipe 24
_01	—	—	—	—
_02	—————	—————	—————	—————
_03	—————	—————	—————	—————
_04	—————	—————	—————	—————
_05	—————	—————	—————	—————
_06	—————	—————	—————	—————
_07	—————	—————	—————	—————
_08	—————	—————	—————	—————
_09	—————	—————	—————	—————
_10	Read Only	Read Only	Read Only	Read Only
_11	Read Only	Read Only	Read Only	Read Only
_12	Read Only	Read Only	Read Only	Read Only
_13	Read Only	Read Only	Read Only	Read Only
_14	Read Only	Read Only	Read Only	Read Only
_15	—	—	—	—
_16	Read Only	Read Only	Read Only	Read Only
_40	—	—	—	—
_41	—	—	—	—
_42	—	—	—	—
_43	—	—	—	—
_44	———·—	———·—	———·—	———·—
_45	—	—	—	—
_46	———·—	———·—	———·—	———·—
_47	—	—	—	—
_48	———·—	———·—	———·—	———·—
_49	—	—	—	—
_50	———·—	———·—	———·—	———·—
_51	—	—	—	—
_52	———·—	———·—	———·—	———·—

Code	Recipe 21	Recipe 22	Recipe 23	Recipe 24
__53	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__54	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__55	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__56	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__57	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__58	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__59	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__80	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__81	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__82	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__83	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__84	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__85	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __
__86	__ __ __ . __	__ __ __ . __	__ __ __ . __	__ __ __ . __

Appendix I

SQR Display Customization Entry Table

<i>Entry Number</i>	<i>Entry Description</i>	<i>Translation</i>	<i>Output Length</i>
*001	Alarm - See Manager		22
*002	Alarm Press "CLEAR"		22
*003	Alarm Press "PRINT"		22
*004	Alarm - Remove Ticket		22
005	** Remove Ticket **		24
006	Please Wait		24
007	Report Pending to Print		24
008	No Local Start Allowed		24
009	Meter Position Not Used		24
010	Press Clear to Continue.		24
011	Press Start to Continue		24
012	** Error Press CLEAR **		24
013	Preset Completed		24
**014	Restart In		11
**015	Valve Delay =		14
016	** Not Authorized **		24
017	Flow =		7
018	Flow* =		7
019	/Min		4
020	/Hr		3
**021	Temperature =		15
**022	Ref Density		12
**023	Rel Density =		18
**024	Meter Factor =		18
025	Raw Transaction		15
026	Grs Transaction		15
027	Gst Transaction		15
028	Net Transaction		15
029	Mas Transaction		15
**030	Inj1 Trans		14

Appendix I

<i>Entry Number</i>	<i>Entry Description</i>	<i>Translation</i>	<i>Output Length</i>
**031	Inj2 Trans		14
**032	Inj3 Trans		14
**033	Inj4 Trans		14
**034	Inj5 Trans		14
**035	Inj6 Trans		14
**036	Inj7 Trans		14
037	Inj1 Total		10
038	Inj2 Total		10
039	Inj3 Total		10
040	Inj4 Total		10
041	Inj5 Total		10
042	Inj6 Total		10
043	Inj7 Total		10
044	Density		7
045	Total		5
**046	Valve Requested		16
047	Open		4
048	Closed		6
049	Lock		4
**050	Load Avg Tmp		15
051	No Alarms Present		17
**052	Avg Pres		8
**053	Avg Den		7
054	Off		3
055	On		3
056	Secs.		5
057	Select Injector#		16
058	Injs. On=#		10
059	No Injectors Selected		24
060	Inj		3
061	Prog		4
062	Cal		3
063	Raw		3

Appendix I

<i>Entry Number</i>	<i>Entry Description</i>	<i>Translation</i>	<i>Output Length</i>
064	Grs		3
065	Gst		3
066	Net		3
067	Mas		3
068	Temp		7
069	Gross		5
070, 071, 072	Preset batch volume exceeds the maximum permitted.		3 * 24
073, 074, 075	Preset batch volume is below the minimum required.		3 * 24
076, 077, 078	The preset volume will cause the max transaction volume to be exceeded.		3 * 24
079, 080	Invalid I.D. number. Press CLEAR to enter.		2 * 24
081	No Recipes Available		24
082	Select Recipe		21
**083	Recipe No		10
084, 085	The minimum preset for this recipe is		2 * 24
086	Mass		4
087	Prv Err		7
088, 089, 090, 091	* Attention: An out of blend condition has developed. Press ENTER to continue.		4 * 24
*092, 093	* Select one of the following options:		2 * 24
094	1 = Terminate Delivery		24
095	2 = Complete to Preset		24
096, 097	3 = Blend Correct by Adjusting Preset		2 * 24
***098	To		4
* 099, 100	*Blend Action Selection is		2 * 24
101, 102	Press SET to confirm, CLEAR to re-select		2 * 24
103	Opened		6

Appendix I

<i>Entry Number</i>	<i>Entry Description</i>	<i>Translation</i>	<i>Output Length</i>
104	Close		5
105	* Batch Limit Reached *		24
106	* Delivery Terminated *		24
**107	Flow		5
108	Flow*		5
109	Dynamic Batch No =		18
110	Tmp Lav		7
111	Additive 1 =		12
112	Additive 2 =		12
113	Additive 3 =		12
114	Additive 4 =		12
115	Additive 5 =		12
116	Additive 6 =		12
117	Additive 7 =		12
118	Trans		5
**119	Ld		3
120	Av Dn		5
121, 122	Fatal: Entry is out of specified range.		2 * 24
123, 124, 125	Recipe selected is not available. Press CLEAR to continue.		3 * 24
126	Program Error		13
127, 128, 129, 130, 131, 132, 133	Warning: Premature batch termination may result in out of blend delivery. If you desire to terminate anyway, press ENTER. Otherwise, press CLEAR to continue.		7 * 24
**134	Dyn Display		12
135	System		6
136	Recipe		6
137	Product		7
138	Batch		5
139	Summary		7

Appendix I

Note: * An entry number flagged with an asterisk (*), designates that the entry description should have a leading space in the message. This will allow for display concatenation without running words together.

Note: ** An entry number flagged with two asterisks (**), designates that the entry description should have a trailing space in the message. This will allow for display concatenation without running words together.

Note: *** An entry number flagged with three asterisks (***), designates that the entry description should have a leading and trailing space in the message. This will allow for display concatenation without running words together.

Note: The output length of each table entry signifies that maximum number of characters allowable for that particular message even though the default message may not take up all spaces allowed.

Note: Entry numbers shown grouped together are 24 character messages concatenated together to form a scrolling message. The total length of these messages are found by multiplying the output lengths together.

Note: Some literal strings that have been abbreviated to 2 or 3 characters will not be concatenated with other strings.

Appendix II

Ready/Run Mode Clearable Alarms

Entry	Alarm	0 = Clearable 1 = Not Clearable
1	CM: Communications	
2	TK: Ticket	
3	TP: Temperature Probe	
4	OA: Overrun	
5	PT: Pulse Transmission	
6	VF: Valve Fault	
7	PR: Pressure Transducer	
8	PC: Pulse Collision	
9	PS: Pulse Security	
10	DP: Down Pulse	
11	DR: Density Transducer	
12	TT: Temperature Transducer	
13	SP: Set at entry 751 (Shared Printer)	
14	SF: Storage Full	
15	F1: Additive Feedback 1	
16	F2: Additive Feedback 2	
17	F3: Additive Feedback 3	
18	F4: Additive Feedback 4	
19	F5: Additive Feedback 5	
20	F6: Additive Feedback 6	
21	F7: Additive Feedback 7	
22	H2: Set at entry 755 (232 Printer Hardware)	
23	O2: Set at entry 755 (232 Paper Out)	
24	A2: Set at entry 755 (232 Cover Open)	
25	P2: Set at entry 755 (232 Communications)	
26	B2: Set at entry 755 (232 Buffer OverFlow)	
27	D2: Set at entry 755 (232 Deselected)	
28	E2: Set at entry 755 (232 General Error)	
29	I2: Set at entry 755 (232 No Response)	
30	H4: Set at entry 755 (485 Printer Hardware)	
31	O4: Set at entry 755 (485 Paper Out)	

Appendix II

Entry	Alarm	0 = Clearable 1 = Not Clearable
32	A4: Set at entry 755 (485 Cover Open)	
33	D4: Set at entry 755 (485 Deselected)	
34	B4: Set at entry 755 (485 Buffer OverFlow)	
35	P4: Set at entry 755 (485 Communications)	
36	E4: Set at entry 755 (485 General Error)	
37	I4: Set at entry 755 (485 No Response)	
38	CL: Clean Line	
39	PA: Power-fail	
40	ZF: Zero Flow	
41	HT: High Temperature	
42	LT: Low Temperature	
43	HP: High Pressure	
44	LP: Low Pressure	
45	HD: High Density	
46	LD: Low Density	
47	BP: Back Pressure	
48	LF: Low Flow	
49	HF: High Flow	
50	BV: Block Valve	
51	BH: Blend High	
52	BL: Blend Low	
53	AC: Additive Communications	
54	IA: Injector Alarm	
55	R1: Additive 1 Frequency	
56	R2: Additive 2 Frequency	
57	R3: Additive 3 Frequency	
58	R4: Additive 4 Frequency	
59	R5: Additive 5 Frequency	
60	R6: Additive 6 Frequency	
61	R7: Additive 7 Frequency	
62	L1: Additive 1 Pulse	
63	L2: Additive 2 Pulse	

Appendix II

Entry	Alarm	0 = Clearable 1 = Not Clearable
64	L3: Additive 3 Pulse	
65	L4: Additive 4 Pulse	
66	L5: Additive 5 Pulse	
67	L6: Additive 6 Pulse	
68	L7: Additive 7 Pulse	
69	N1: No Pulses Detected Add1	
70	N2: No Pulses Detected Add2	
71	N3: No Pulses Detected Add3	
72	N4: No Pulses Detected Add4	
73	N5: No Pulses Detected Add5	
74	N6: No Pulses Detected Add6	
75	N7: No Pulses Detected Add7	
76	M1: Too Many Pulses Add1	
77	M2: Too Many Pulses Add2	
78	M3: Too Many Pulses Add3	
79	M4: Too Many Pulses Add4	
80	M5: Too Many Pulses Add5	
81	M6: Too Many Pulses Add6	
82	M7: Too Many Pulses Add7	
83	K1: Low Additive 1	
84	K2: Low Additive 2	
85	K3: Low Additive 3	
86	K4: Low Additive 4	
87	K5: Low Additive 5	
88	K6: Low Additive 6	
89	K7: Low Additive 7	
90	U1: Unauth Failed 1	
91	U2: Unauth Failed 2	
92	U3: Unauth Failed 3	
93	U4: Unauth Failed 4	
94	U5: Unauth Failed 5	
95	U6: Unauth Failed 6	
96	U7: Unauth Failed 7	

Note: 1. Alarms that have the statement "Set at entry ???" are programmable in their respective program codes as to whether they are clearable or not clearable in the Run and Ready Mode of operation
 2. Alarms 1 through 40 are System Alarms, alarms 41 through 52 are Product Alarms, alarms 53 through 96 are Smart Additive Alarms.

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