### **SECTION Z**

### **TOUCH SCREEN INTERFACE DEVICE - TSID**

The Touch Screen Interface Device (TSID) is a optional piece of equipment that is used to perform troubleshooting and customization of the SC1000 for specific applications.

It provides full access to all setup and status parameters.

It also has screens designed to demo the SCADA capabilities of the SC1000.

#### **TSID FUNCTIONS**

- View or Change Setup Parameters
- View Status or Change Setup of all I / O
- Test Communication Ports COM1 and ENET1
- Demo all SCADA features



#### **TSID COMMUNICATION WITH SC1000**

The following SC1000 parameter settings are required for COM1 and ENET1 to communicate with the TSID:

RS232 Port COM1 Setup								
E.11	1	Slave Address				Range: 1 - 247		
E.12	3	Baud Rate	1 = 2400 bps	2=4800 bps	3 = 9600 bps	4 = 19200 bps		
E.13	0	Parity Mode	0 = No Parity	1 = Odd Parity	2 = Even Parity			
E.14	2	Stop Bits	1 = 1 Stop Bit	2=2 Stop Bits				

Ethernet Port ENET1 Setup							
E.114 - E.111	192 . 168 . 80 . 12 ( E.114 . E.113 . E.112 . E.111 )	IP Address	Range: 0 - 255				
E.144 - E.141	255 . 255 . 255 . 0 ( E.144 . E.143 . E.142 . E.141 )	Subnet Mask	Range: 0-255				
E.154 - E.151	192 . 168 . 80 . 1 ( E.154 . E.153 . E.152 . E.151 )	Default Gateway	Range: 0 - 255				
E.161	502	Port Number	Range: 1-65,535				

#### Note:

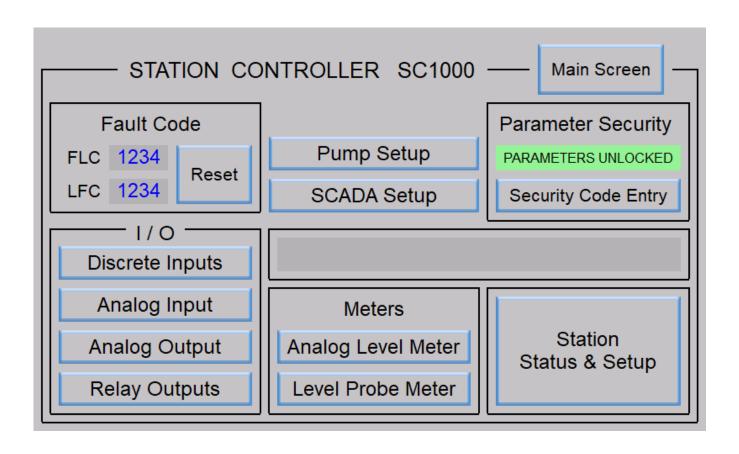
The Controller's logic reads the setup values upon power up; any changes to the above settings require that the power to be cycled before the new values are used.

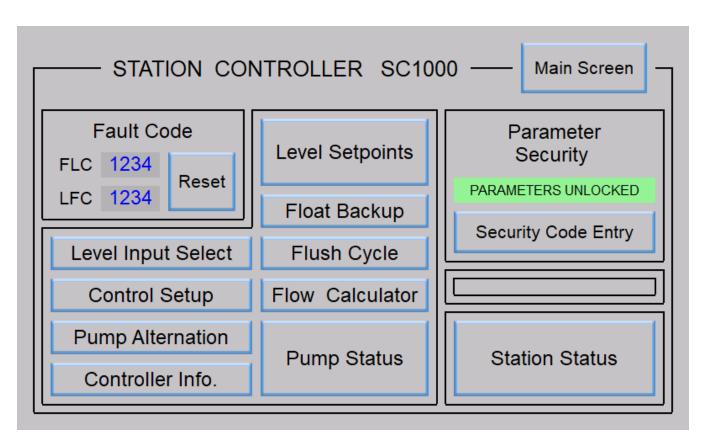
The Touch Screen Interface Device (TSID) consists of a 7 inch Touch Screen panel made by Automation Direct, housed in a durable carrying case with a power cord and interface cables for connection to the Serial Port COM1 and the Ethernet Port ENET1.

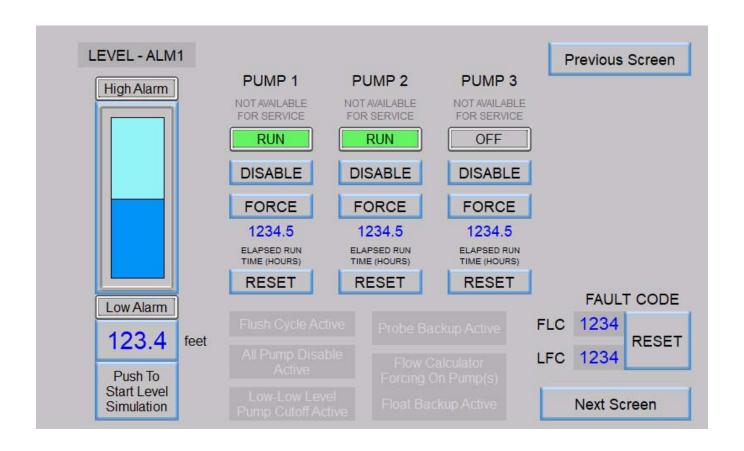
It is programmed as a Modbus Master that continually polls the Controller.

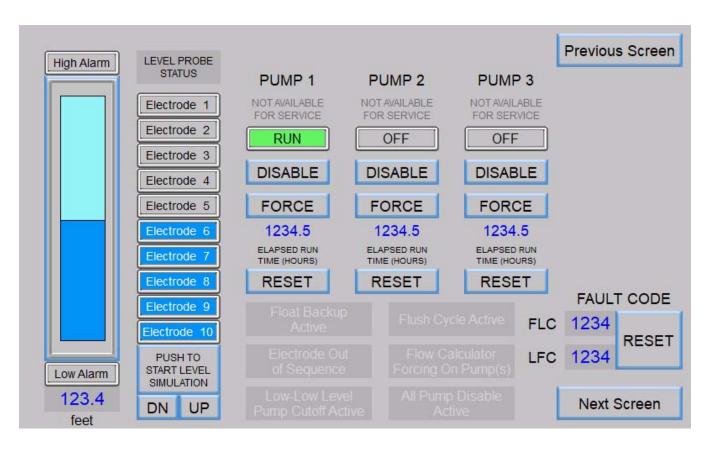
#### ORDERING INFORMATION

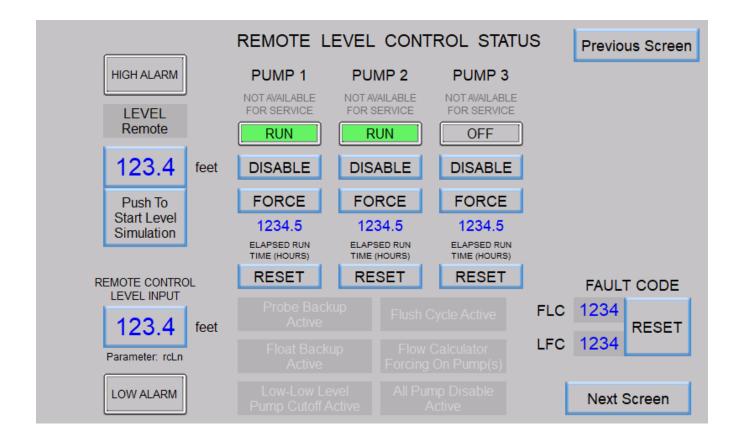
Part Number: TSID

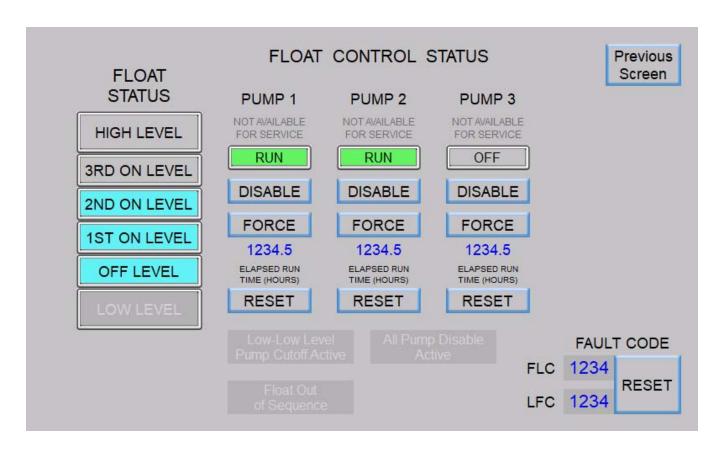


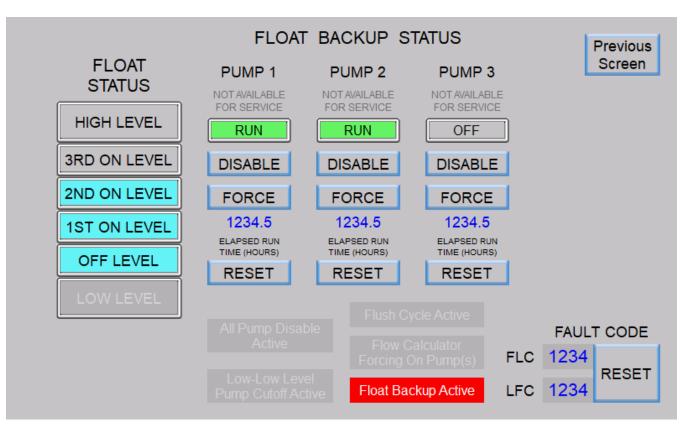




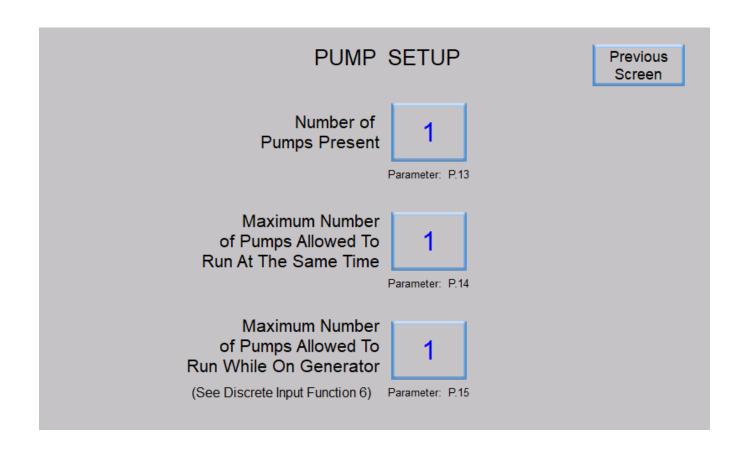


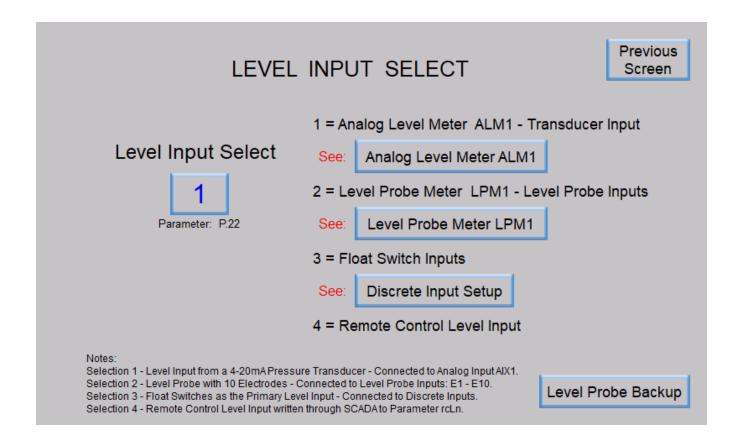


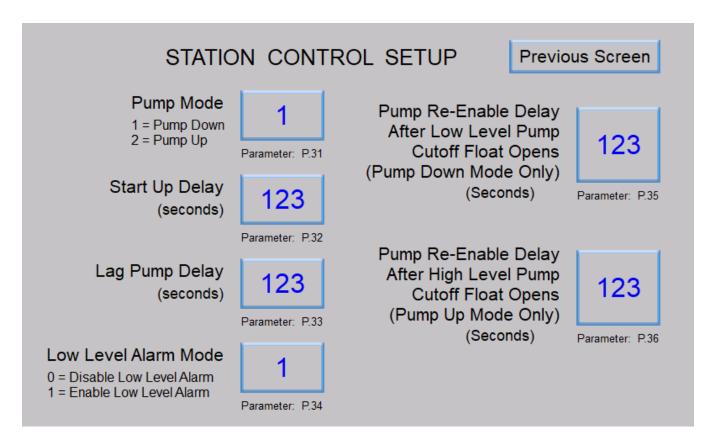


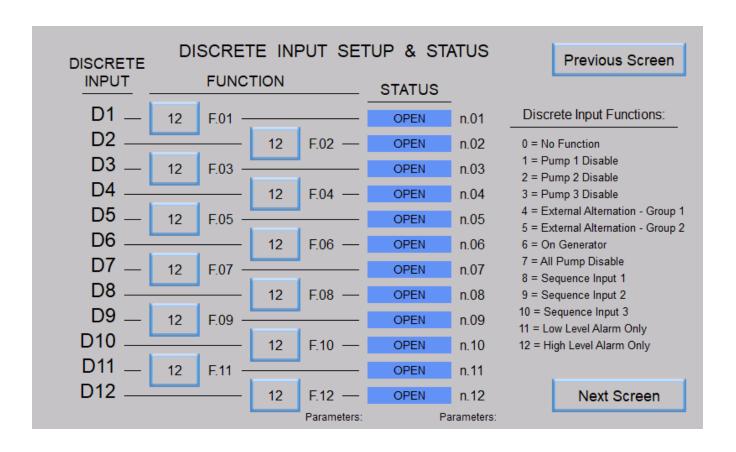


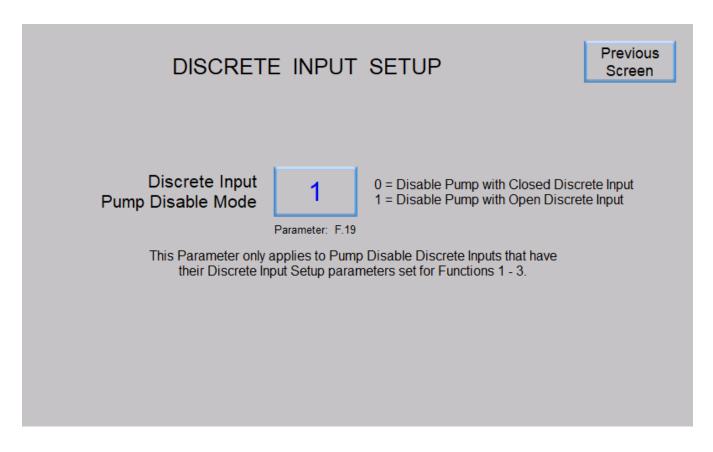
PUMP C	Previous Screen							
PUMP O	PUMP ON / OFF LEVEL CONTROL (feet)							
3rd OFF	123.4	123.4	3rd ON	LOW	123.4			
2nd OFF	123.4	123.4	2nd ON					
1st OFF	123.4	123.4	1st ON		FAULT CODE			
				FLC	RESET			
				LFC	1254			

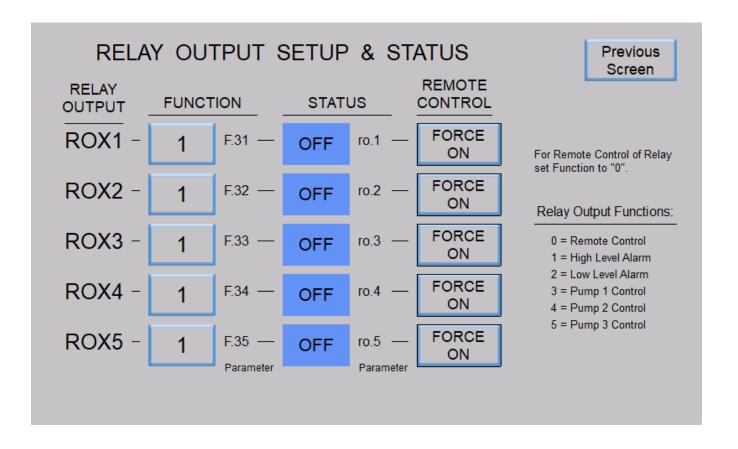




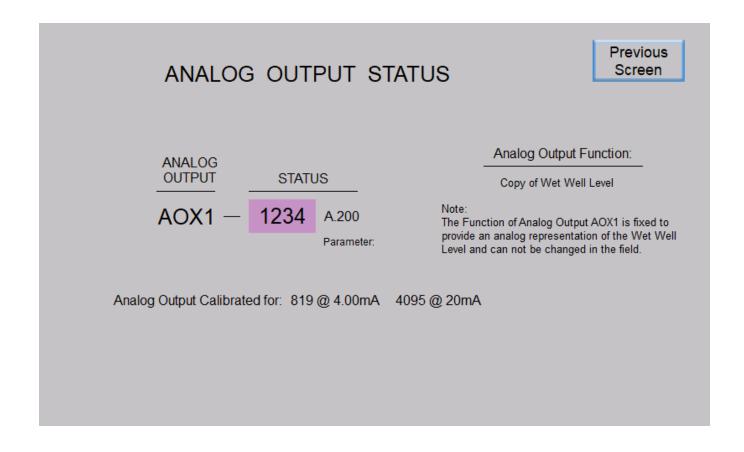


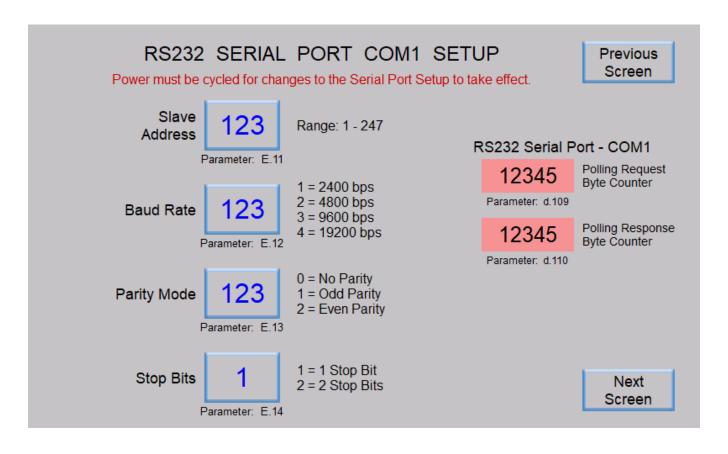


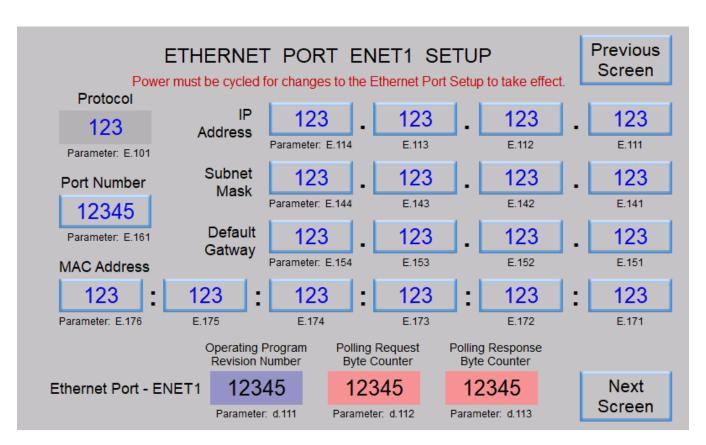


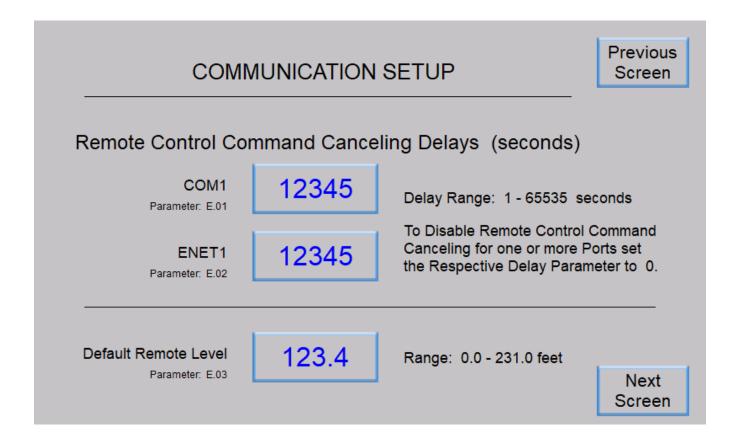


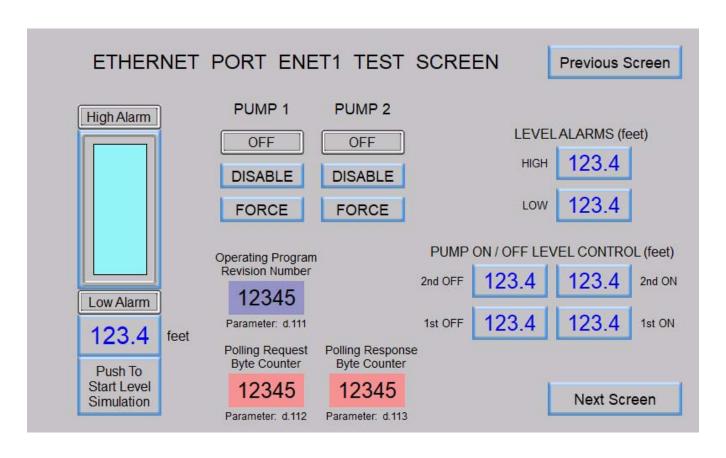
# Previous ANALOG INPUT STATUS Screen Analog Input Function: **ANALOG** INPUT STATUS Analog Level Meter ALM1 Note: AIX1 -1234 A.100 The Function of Analog Input AIX1 is fixed as the Analog Input to the Analog Level Meter ALM1 Parameter: and can not be changed in the field. Analog Input Calibrated for: 819 @ 4.00mA 4095 @ 20mA











## COMMUNICATION SETUP

Previous Screen

#### **RX & TX LED MODE**

- 1 = Shows COM1 and ENET1 Communication
- 2 = Shows COM1 Communication Only
- 3 = Shows ENET1 Communication Only

Parameter: E.07

4 = Shows Communication Between the Input Board and the Control Board Only

### PUMP ALTERNATION SETUP

Previous Screen



Alternation Sequence Mode

Parameter: P.16

1 = Standard Alternation: Group 1: Pumps 1-3

2 = Pump 1 Always Lead: Group 1: Pump 1

Group 2: Pumps 2 - 3

3 = Pump 3 Always Last: Group 1: Pumps 1 - 2

Group 2: Pump 3

Alternation Sequence Modifier A

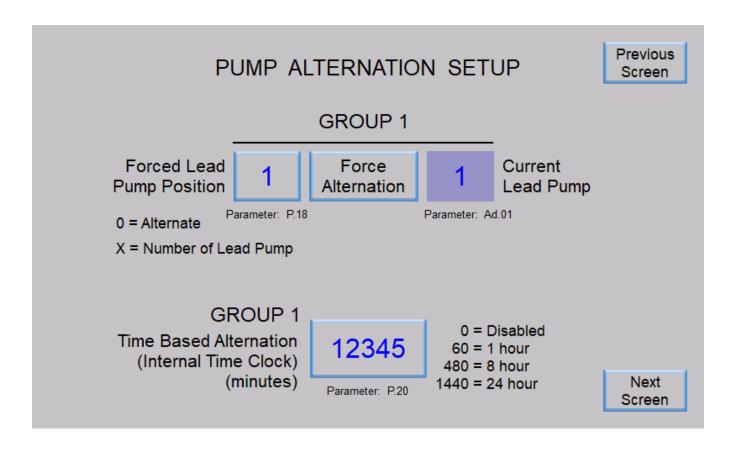
Parameter: P.17

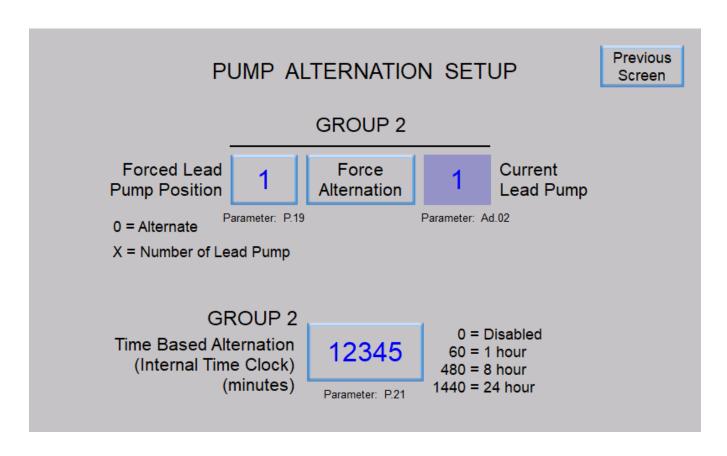
0 = Pump 1 is Allowed to Run with Pumps from Group 2

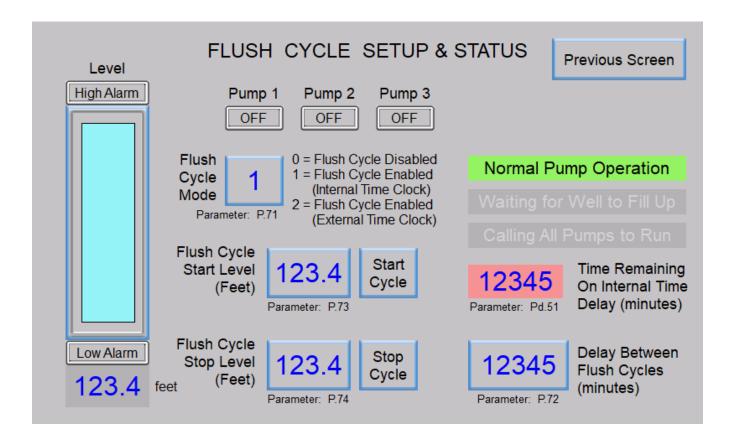
1 = Pump 1 is Not Allowed to Run with Pumps from Group 2

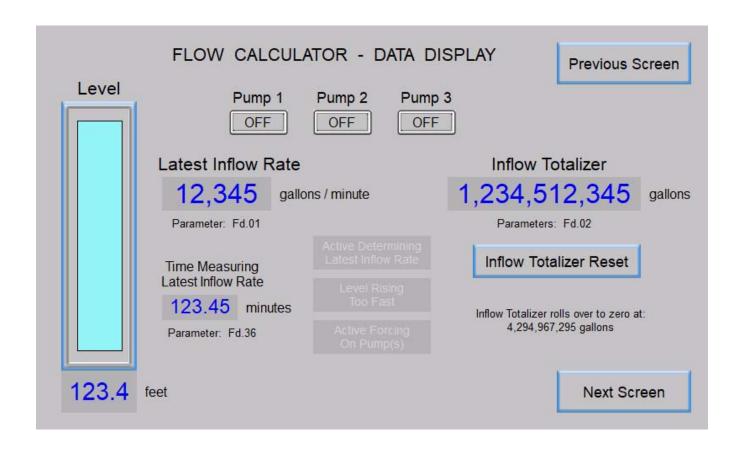
Alternation Sequence Modifier A only applies where Parameter P.16 = 2.

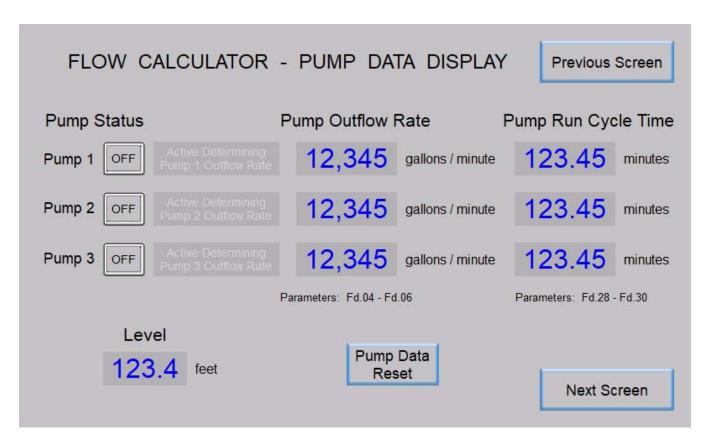
> Next Screen



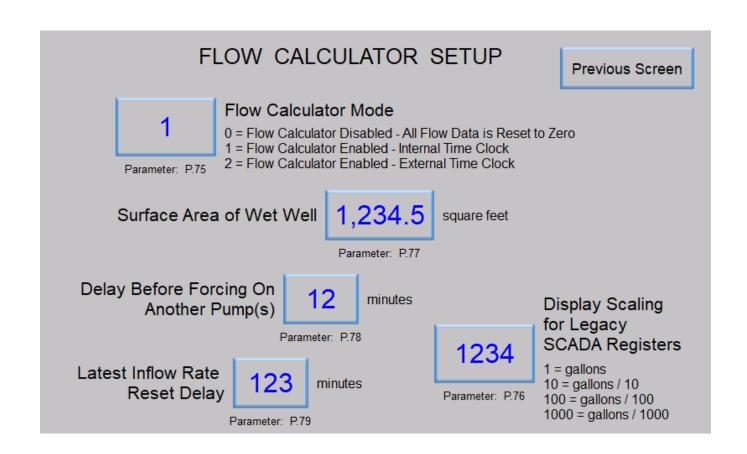


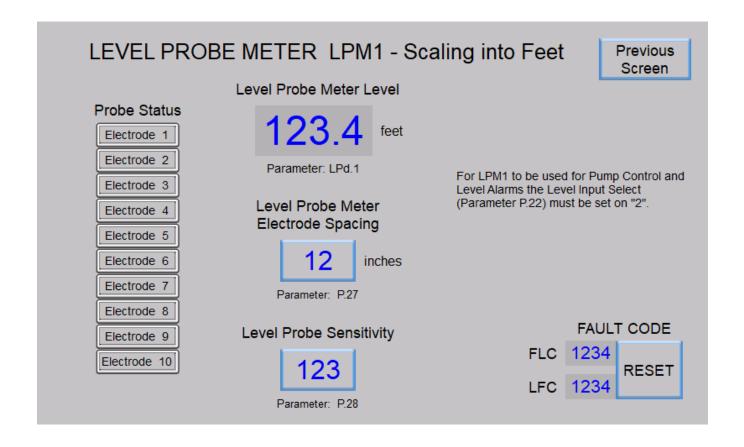


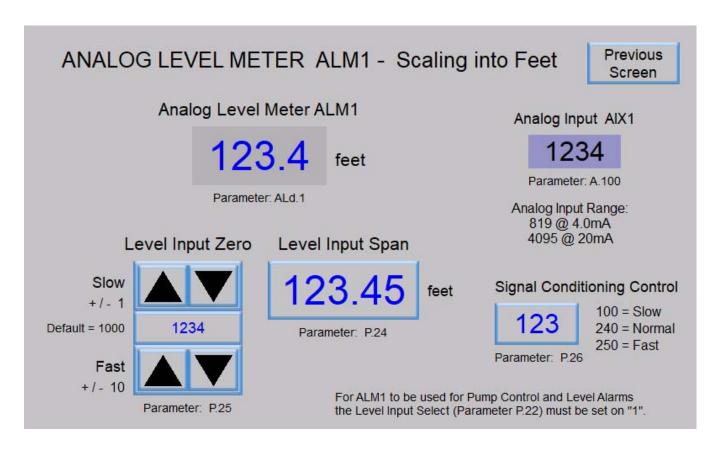




FLC		ALCULATOR -		DISPLAY	<b>(</b>	Prev	ious S	Screen
Inflow Total Si the Start of a New	ince	1,234,512,345 Parameters: Fd.12	gallons	Average Daily Inflow Tota 1,234,512,345 ga		otal gallons		
Complete Day's D	Data	Daily Inflow Total			Param	eters: F	d.10	
Newest Data	Day 1	1,234,512,345	gallons					
С	Day 2	1,234,512,345	gallons		Internal Time Clock Time Elapsed Since			
	Day 3		gallons	40	the Start of a New Day  12,345 hours 12 r		•	
С	Day 4	1,234,512,345	gallons	12	.,345 Paramete			minutes 34
С	Day 5	1,234,512,345	gallons		Start	t New	Day	
С	Day 6	1,234,512,345	gallons					
Oldest Data	Day 7	1,234,512,345	gallons			Ne	ext Sc	reen
		Parameters: Fd.14 - Fd.26						







	ST SIGN STATUS		PROBE STATUS	LEVEL PROBE Previous STATUS Screen
E1	123	L.01	Electrode 1 n.21	
E2	123	L.02	Electrode 2 n.22	Level Probe
E3	123	L.03	Electrode 3 n.23	Sensitivity
E4	123	L.04	Electrode 4 n.24	123
E5	123	L.05	Electrode 5 n.25	Parameter: P.28
E6	123	L.06	Electrode 6 n.26	123 Clock Signal
E7	123	L.07	Electrode 7 n.27	Parameter: L.11
E8	123	L.08	Electrode 8 n.28	
E9	123	L.09	Electrode 9 n.29	
E10	123	L.10	Electrode 10 n.30	
	Pa	rameters:	Parameters	5:

ELECTRODE	FUNCTION	LEVEL PROBE BACKUP SETUP	Previous Screen
E1	1b.01		
E2	1b.02	Electrode Input Functions:	Level Probe Sensitivity
E3	1b.03	0 = No Function 1 = Backup Pump Control - High Level	123
E4	1b.04	2 = Backup Pump Control - 3rd On Level 3 = Backup Pump Control - 2nd On Level	Parameter: P28
E5	1b.05	4 = Backup Pump Control - 1st On Level 5 = Backup Pump Control - Off Level	Falameter. F.20
E6	1b.06	Notes:	
E7	1b.07	The Backup Pump Control feature will be disselected as the primary Level Input (Parameter)	
E8	1b.08	The Backup Pump Control feature will opera only (Parameter P.31 = 1), and will not oper	•
E9	1b.09	Function 1 will activate the High Level Alarm pumps to run until the Off Level Electrode is	
E10			
	Parameters:		

