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SLC-211
Signal Level Converter



**Quick Reference
Card Guide**

Pin #	Description	Pin #	Description
1	Digital Input 1	27	Power Supply Input - Ground
2	Digital Input 2	28	Power Supply Input - +24VDC
3	Digital Input 3	29	
4	Digital Input 4	30	
5	Digital Input 5	31	
6	Digital Input 6	32	
7	Digital Input 7	33	
8	Digital Input 8	34	Programming / Communication Port
9		35	
10	High Level Alarm	36	
11	Pump On / Off Control	37	
12	Digital Output 3	38	
13	Digital Output 4	39	
14	Digital Output 5	40	
15	Digital Output 6	41	
16	Digital Output 7	42	
17	Digital Output 8	43	
18		44	
19	+24VDC Loop Power	45	Remote LCD and Keypad Port
20	System Pressure	46	
21	+24VDC Loop Power	47	
22	4mA–20mA Input 2	48	
23	+24VDC Loop Power	49	Analog Output 1 Ground
24	4mA–20mA Input 3	50	Analog Output 1 Tank Level
25	+24VDC Loop Power	51	Analog Output 2 Ground
26	4mA–20mA Input 4	52	Analog Output 2 4mA-20mA

Digital Inputs:

Activate by switching to GND.
Internal pull-up to +5VDC

Digital Outputs:

+24VDC @ 250mA
Activates by switching to GND.

Analog Inputs:

4mA – 20mA @ +24VDC

Analog Outputs:

4mA – 20mA @ +24VDC

Physical Equipment:

DIN Rail Mountable
6.125" Wide, 3.375" High, 2.281" Deep

User Interface:

2 Line, 16 Character LCD with back light
4 Button User Interface

PFiX Controls®

Main Screens

SYSTEM 3.3 PSI
MSG> PUMP OFF

OR

TANK 7.6 FT
MSG> PUMP OFF

Press

DOWN

IN 3.3 PSI
IN 1023 OUT 1023

Press

DOWN

Return to
Main screen



Press **MENU** from the main screen to display setup menu.

The main screen displays the system pressure in PSI or tank level in feet, control status, and any active alarms.

The next screen displays the input system pressure "IN ... PSI", the raw input pressure as an integer, and the re-scaled output pressure as an integer.

PFiX Controls®

Setup Menu

SETUP MENU
PRESSURE

Press

DOWN



SETUP MENU
LEVEL

Press

DOWN



SYSTEM MENU
OPTIONS

Press

DOWN



PFiX Controls
SLC 1.1 08-13-03

Press

DOWN



Pressure
Menu

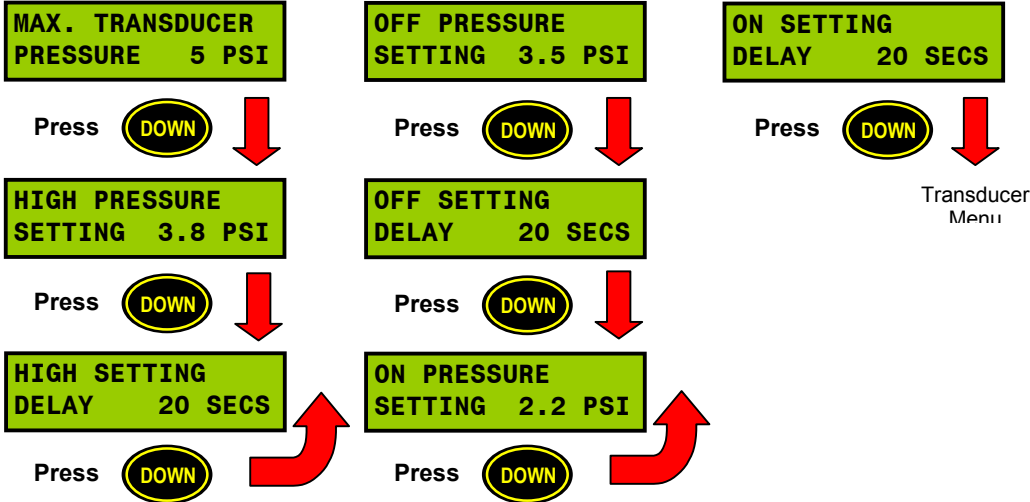
Pressing **SELECT** to display the sub-menu.
Press **MENU** to return to the main screen.

The **PRESSURE** menu determines the pressure transducer range, high pressure level, pump off pressure and delay, and pump on pressure and delay.

The **LEVEL** menu determines if controller displays system pressure or tank level. Maximum tank level must be entered to properly display the tank level.

The **OPTIONS** menu allows setting of the "Back light off" delay. A setting greater than 300 sets back light on indefinitely.

The **PFiX Controls** screen simply displays the software version and date.



Pressing **SELECT** to display the sub-menu.
 Press **MENU** to return to the main screen.

The **TRANSDUCER** menu defines the pressure range.

The **HIGH-PRESSURE SETTING** pressure and delay menus define when system alarms on high pressure. Digital output one activates on a high-pressure alarm.

The **PUMP OFF** pressure and delay menus define when pumps switch off. Digital output two de-activates on pump off.

The **PUMP ON** pressure and delay menus define when pumps switch on. Digital output two activates on pump on.

SHOW TANK LEVEL?
DISABLE

Press **DOWN**



Show Tank
Level
Menu

MAXIMUM TANK
LEVEL 10.0 FT

Press **DOWN**



Pressing **SELECT** to display the sub-menu.
Press **MENU** to return to the main screen.

The **SHOW TANK LEVEL** menu selects whether the controller displays system pressure in PSI or tank level in feet.

The **MAXIMUM TANK LEVEL** menu defines the maximum number of feet of water the tank can contain.

BACK LIGHT OFF
DELAY 30 SECS

Press



Back Light
Off Menu

The **BACK LIGHT OFF** delay menu provides a setting to delay the LCD back light from switching off after the last key press. The default setting of 30 seconds would switch off the back light 30 seconds after the last key press. A setting larger than 300 prevents the back light from being switched off.

Pressing **SELECT** to display the sub-menu.
Press **MENU** to return to the main screen.

SYSTEM 115.7 PSI
MSG> HIGH LEVEL

Highest
Priority

Press



Lowest
Priority

The shutdown **SD** alarms inhibits the running of pumps until after acknowledging the alarms.

Alarm notification provided by message area on second line of main display screen. Alarms listed on this page are shown by priority, highest to lowest. Press the **UP** key to acknowledge alarms. Acknowledging alarms clears the displayed message. Lower priority alarms will display after acknowledging higher priority alarms. Alarms will not re-trigger until alarm condition returns to normal.

OFF PRESSURE
SETTING 3.5 PSI

Press



OFF PRESSURE
SETTING 03.5 PSI

Press



OFF PRESSURE
SETTING 03.5 PSI

Press



OFF PRESSURE
SETTING 03.5 PSI

Press



OFF PRESSURE
SETTING 03.6 PSI

Press



OFF PRESSURE
SETTING 03.7 PSI

Press



OFF PRESSURE
SETTING 03.8 PSI

Press



OFF PRESSURE
SETTING 3.8 PSI

Press



Next menu item

Press



Up one menu level

Press **SELECT** key to activate data-entry mode. The black cursor block appears indicating the data entry mode. Edit numeric values one digit at a time, from highest to lowest. Pressing the **UP** and **DOWN** key changes a numeric digit by one respectively. Press **SELECT** to accept the entry and move to the next digit. To skip a digit, press **SELECT**. Pressing **SELECT** at the last digit, accepts the entire number as the new setting for the menu item.

Pressing **MENU** key during data entry, (i.e. Black Cursor Block appears), cancels the changes made and returns the controller to the non-data entry mode, (i.e. Black Cursor Block disappears).

SHOW TANK LEVEL?
DISABLE

Press



SHOW TANK LEVEL?
DISABLE

Press



SHOW TANK LEVEL?
Enable

Press



SHOW TANK LEVEL?
ENABLE

Press



Next menu item

Press



Up one menu level

Press **SELECT** key to activate data-entry mode. The black cursor block appears indicating the data entry mode. Edit selection values by alternating between the two choices. Pressing the **UP** or **DOWN** key alternates between the choices. Pressing **SELECT** accepts the entire selection as the new setting for the menu item.

Pressing **MENU** key during data entry, (i.e. Black Cursor Block appears), cancels the changes made and returns the controller to the non-data entry mode, (i.e. Black Cursor Block disappears).