

SIEMENS PLC — SETTING PARAMETERS

Each Vmax system is tested and checked at the factory prior to shipment to ensure trouble-free operation. In the unlikely event you encounter a problem, we recommend that you consult with your local distributor for parts/service. Remember, when calling for service, parts or system information, always have the pump or system model number and serial number ready.

[Click here to find your local authorized distributor.](#)

DEKKER uses the Siemens LOGO! programmable logic controller to perform several functions, such as turning pumps on and off based on feedback from a vacuum transducer, alternating the lead/lag pumps in a multiplex vacuum system, or providing minimum run time to protect pump motors from frequent starts (10-minute minimum run time is typical).

When the system is running, the normal screen should be the Value screen.



Press the Down arrow to get to the Date/Time screen.



From the Date/Time screen, open the Menu screen by pressing the ESC button.



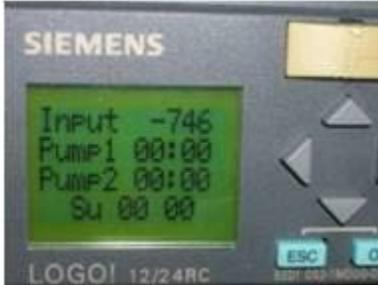
Use the Down arrow to point to Set Param then press the OK button.



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Values for each block will be shown (1 block per screen).



Typical block assignments for a duplex system will be:

- B15 = Lead Pump
- B16 = Lag Pump
- B17 = Alternation Day/Time
- B14 = Lag Pump Alarm Settings (Available on NFPA 99 systems for medical applications)

Typical block assignments for a triplex system will be:

- B15 = Lead Pump
- B16 = Mid Pump
- B23 = Lag Pump
- B17 = Alternation Day/Time (Available on NFPA 99 systems for medical applications)
- B14 = Lag Pump Alarm Settings

To change a parameter value, use the Up/Down arrows to show the block that you want to modify, then press the OK button. You can change the value by moving the cursor to the desired location with the Left or Right arrow keys. The actual value is changed by using the up or down arrow. After changing the value, accept it by pressing the OK button. After accepting the value, use the Up or Down button to continue to the next block that you would like to modify.



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When setting the on and off setpoints on your controller, use the following table for reference:

| Inches HgV | PLC Setting |
|------------|-------------|
| 29 | 234 |
| 28 | 488 |
| 27 | 742 |
| 26 | 996 |
| 25 | 1250 |
| 24 | 1504 |
| 23 | 1758 |
| 22 | 2012 |
| 21 | 2266 |
| 20 | 2520 |
| 19 | 2775 |
| 18 | 3028 |
| 17 | 3282 |
| 16 | 3536 |
| 15 | 3790 |
| 14 | 4044 |
| 13 | 4298 |
| 12 | 4552 |
| 11 | 4806 |
| 10 | 5060 |

Standard switch points for a duplex system will be set at:
Lead pump on at 17" HgV (3282) off at 20" HgV (2520)
Lag pump on at 16" HgV (3536) off at 19" HgV (2775)

For NFPA 99 duplex systems that require lag pump alarms,
Lag pump alarm settings on at 16" HgV (3536) off at 19" HgV (2775)

Standard switch points for a triplex system will be set at:
Lead pump on at 17" HgV (3282) off at 20" HgV (2520)
Mid pump on at 16" HgV (3536) off at 19" HgV (2775)
Lag pump on at 15" HgV (3790) off at 18" HgV (3028)

For NFPA 99 triplex systems that require lag pump alarms:
Lag pump alarm settings on at 15" HgV (3790) off at 18" HgV (3028)



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After all modifications have been made and accepted, you will need to exit the Set Param mode by pressing the ESC button two times to return to the Date/Time screen.

In the unlikely event the Siemens LOGO! PLC requires an update to the program (not just the parameters), a new program can be installed through the use of an EEPROM chip. Programs are kept on file at DEKKER Vacuum Technologies. Copies of the original program supplied in the PLC can be purchased through DEKKER Vacuum.

WARNING! Before attempting any repairs, disconnect all power from the system by switching off power at the main breaker or disconnect switch. Always use appropriate Lock Out - Tag Out procedures.

