Introducing the **ControlDEK™ PLC** from DEKKER Vacuum Technologies. The ControlDEK PLC is an easy to use, yet highly advanced, touch screen controller. The ControlDEK PLC is available across all of DEKKER product lines, and is designed both for Standard or Custom applications. The ControlDEK PLC offers at a glance access to important system information and controls.

### Features and Advantages

- Single standard user-friendly interface across DEKKER’S full product line and systems
- Software updates that can easily be applied in the field
- Enhanced monitoring capabilities with optional Modbus communication module
- Optional SMS and Email Functionality
- Trend, Charts and Data Logging

### Data Logging Features

- Interval Logging or Events Only Logging
- User adjustable Logging Interval
- Log to Excel® File (.csv file format)
- Logs stored on removable MicroSD card
- Data is logged for only one Panel
- Multi-Systems will have a log for each panel
- 1 Minute Interval = 1+ Year of Data
- 5 Minute Interval = 20+ Years of Data

### Dekker Controller/ ControlDEK Feature Comparison

<table>
<thead>
<tr>
<th>Dekker Controller</th>
<th>ControlDEK</th>
</tr>
</thead>
<tbody>
<tr>
<td>VMax Only</td>
<td>All Dekker Systems</td>
</tr>
<tr>
<td>4-Line LCD</td>
<td>Modern 4.3” Color Touch Screen</td>
</tr>
<tr>
<td>Non-Intuitive User Interface</td>
<td>User Friendly Touch Screen</td>
</tr>
<tr>
<td>Modbus and other communication standards not available</td>
<td>Optional Modbus (Serial or Ethernet)</td>
</tr>
<tr>
<td>No Charts, Trending, or Data Logging</td>
<td>Trending, Charts, and Data Logging standard</td>
</tr>
</tbody>
</table>
ControlDEK Data Logging

The Data Log for the ControlDEK PLC can be set for Events Only or Interval Logging. Interval Logging writes a line of data at a user set interval. In addition, interval logging will write a line of data for any of the event triggers. Events Only logging will write data only at Event Triggers. Events Only logging is often times easier to read, but may not offer enough information to determine why a fault occurred. As an example: the Events Only log shows that a High Temperature Warning and High Temperature Alarm occurred, but does not show the information leading up to those faults. Interval logs show all of this data.

Example of an Events Only Data Log File

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Hand/Auto</th>
<th>Run Status</th>
<th>Vacuum Level</th>
<th>Back-pressure</th>
<th>Oil Temp</th>
<th>Total Run Hours</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>9/25/16</td>
<td>15:12:37</td>
<td>Hand</td>
<td>Stopped</td>
<td>19.9</td>
<td>0</td>
<td>71.9</td>
<td>97</td>
<td>Local Start</td>
</tr>
<tr>
<td>9/25/16</td>
<td>15:32:47</td>
<td>Auto</td>
<td>Running</td>
<td>19.9</td>
<td>0</td>
<td>71.9</td>
<td>98</td>
<td>State Change Hand Auto Switch</td>
</tr>
<tr>
<td>9/25/16</td>
<td>15:33:04</td>
<td>Hand</td>
<td>Running</td>
<td>19.9</td>
<td>0</td>
<td>71.9</td>
<td>98</td>
<td>State Change Hand Auto Switch</td>
</tr>
<tr>
<td>9/25/16</td>
<td>15:38:44</td>
<td>Hand</td>
<td>Running</td>
<td>19.9</td>
<td>0</td>
<td>71.9</td>
<td>98</td>
<td>Local Stop</td>
</tr>
<tr>
<td>9/25/16</td>
<td>15:43:12</td>
<td>Hand</td>
<td>Stopped</td>
<td>19.9</td>
<td>0</td>
<td>71.9</td>
<td>98</td>
<td>High Temperature Warning</td>
</tr>
<tr>
<td>9/25/16</td>
<td>16:14:26</td>
<td>Hand</td>
<td>Running</td>
<td>19.9</td>
<td>0</td>
<td>127.4</td>
<td>98</td>
<td>High Temperature Warning</td>
</tr>
<tr>
<td>9/25/16</td>
<td>16:52:39</td>
<td>Hand</td>
<td>Running</td>
<td>19.9</td>
<td>0</td>
<td>123.6</td>
<td>99</td>
<td>High Temperature Warning Cleared</td>
</tr>
<tr>
<td>9/25/16</td>
<td>17:13:56</td>
<td>Hand</td>
<td>Running</td>
<td>19.9</td>
<td>0</td>
<td>125.9</td>
<td>99</td>
<td>High Temperature Warning</td>
</tr>
<tr>
<td>9/25/16</td>
<td>17:31:22</td>
<td>Hand</td>
<td>Running</td>
<td>19.9</td>
<td>0</td>
<td>150.5</td>
<td>100</td>
<td>High Temperature Alarm</td>
</tr>
<tr>
<td>9/25/16</td>
<td>18:08:42</td>
<td>Hand</td>
<td>Stopped</td>
<td>19.9</td>
<td>0</td>
<td>106.5</td>
<td>100</td>
<td>High Temperature Alarm Cleared</td>
</tr>
<tr>
<td>9/25/16</td>
<td>18:08:42</td>
<td>Hand</td>
<td>Stopped</td>
<td>19.9</td>
<td>0</td>
<td>106.5</td>
<td>100</td>
<td>Fault Reset Button Actuated</td>
</tr>
<tr>
<td>9/25/16</td>
<td>18:14:48</td>
<td>Hand</td>
<td>Stopped</td>
<td>19.9</td>
<td>0</td>
<td>90.3</td>
<td>100</td>
<td>Local Start</td>
</tr>
</tbody>
</table>

Data Logged

- Date
- Time
- Hand/Auto Status

Run Status
- Vacuum Level
- Back-pressure

Oil Temp
- Total Run Hours
- Event

Event Triggers

- Hand/Auto State Change
- Local Start
- Remote Start
- Local Stop
- Remote Stop
- Fault Reset Button Actuated
- High Temperature Warning

- High Temperature Warning Cleared
- High Temperature Alarm
- High Temperature Alarm Cleared
- Backpressure Warning
- Backpressure Warning Cleared
- Backpressure Alarm
- Backpressure Alarm Cleared

- Contactor Fault/VFD Run Fail
- High Fluid Level
- Low Fluid Level
- Fluid Level Normal (return from high/low status)
- Contactor Overload/VFD Fault
- Overload Reset/VFD Fault Reset