The *Class1* digital display mounts in a 2.85” by 1.55” cutout. Overall area necessary for installation is 2.5” by 3.2”.

Two 0.20 diameter holes are provided for mounting screws.
The digital displays are connected to the OEM harness with a Deutsch 8 pin mini-connector.

Mating Connector: DTM06-08S  
Locking Wedge: WM-8S  
Mating Terminal: 0462-201-20141 20 gauge socket

General Terminal Assignments:
1) NC  
2) Primary Pressure Signal  
3) Sensor Supply (+5 VDC)  
4) Power (+12 VDC)  
5) Ground  
6) Sensor Ground  
7) NC  
8) NC

Not all of the digital displays use all of the terminals. See individual display pages for application information.

Harnesses are available for the digital displays in various lengths. These include transmitter and power connections.

Harness Part Numbers by length and application.

<table>
<thead>
<tr>
<th>Length</th>
<th>Pressure Display</th>
<th>Dual Display “Y”</th>
<th>Display Pigtail</th>
</tr>
</thead>
<tbody>
<tr>
<td>5’</td>
<td>102060</td>
<td>102294</td>
<td>102272</td>
</tr>
<tr>
<td>10’</td>
<td>102035</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20’</td>
<td>102061</td>
<td></td>
<td>Extension 15’</td>
</tr>
<tr>
<td>30’</td>
<td>102271</td>
<td></td>
<td>103367</td>
</tr>
</tbody>
</table>
Digital Display Calibration should be performed to assure accuracy.

**Display Calibration sequence for Gauges with 7 segment LED’s**

A password will look like the following example.

```
LEFT RIGHT RIGHT LEFT LEFT
```

*Enter the switch sequence with a magnet to enter the basic calibration mode.*

If the password is correctly entered, **CAL** will be displayed for 1/2 second followed by a number that is dependent on the display being calibrated (usually 0).  

Establish accurate and stable conditions for calibration.

When the calibration conditions are stable, activate the left switch.

The display will read **done** and then return to normal operation.
Installation and Operation of the *Class1* Digital Pressure Gauge.

The pressure transducer (**PN 102161**) mounts to the pump with a 1/4” NPT fitting. Mount the pressure transducer on the pump discharge manifold and tighten using the 1-1/4 hex. Mount the digital display on the pump panel using the dimensions provided.

Connect the wiring harness PN 102035, 102060, or 102061 to the transducer, the display and to the vehicle power and ground circuits.

Operation is straightforward. When the unit is turned on, the display indicates pump pressure at the transducer location. Normally no calibration is required, however if the gauge does not read zero when the pump is not running, a **ZERO** calibration can be performed. Password **L R R L L**. This feature is available only on rP1.7 and above.

<table>
<thead>
<tr>
<th>PIN</th>
<th>COLOR</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PLUG</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>WHITE</td>
<td>SIGNAL</td>
</tr>
<tr>
<td>3</td>
<td>RED</td>
<td>SENSOR SUPPLY</td>
</tr>
<tr>
<td>4</td>
<td>RED</td>
<td>POWER IN</td>
</tr>
<tr>
<td>5</td>
<td>BLACK</td>
<td>GROUND IN</td>
</tr>
<tr>
<td>6</td>
<td>BLACK</td>
<td>SENSOR GROUND</td>
</tr>
<tr>
<td>7</td>
<td>PLUG</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>PLUG</td>
<td></td>
</tr>
</tbody>
</table>

Harness PN 102060 5’
102035 10’
102061 20’
**The display does not illuminate.**

The display must have power at terminal 4 and ground at terminal 5. With the connector removed, check across pins 4 and 5 for 12 VDC, if 12 volts is present with the correct polarity, replace the display. If voltage and/or ground is not present, check the vehicle wiring.

**The pressure reading on a discharge or intake gauge does not change.**

There is a problem with the pressure transducer or wiring. At the transducer connector, check for 5 VDC between pins A (ground) and pin B (+5 VDC). These are sent from the display and must be of the correct polarity for the transducer to function. Plug the connector into the transducer and check for voltage at the display between pin 6 (sensor ground) and pin 2 (signal). With zero pressure/suction at the pump, this voltage should be between 500 mV and 900 mV. As the pressure in the pump increases, the voltage should increase. If it does not, then replace the transducer. If the voltage increases, and the display does not change, perform a default calibration, call Class1 (1-800-533-3569) for instructions. If the default calibration does not correct the problem, replace the display.

**The pressure display reads SEnS.**

There is a problem with the pressure transducer or wiring. At the transducer connector, check for 5 VDC between pins A (ground) and pin B (+5 VDC). These are sent from the display and must be of the correct polarity for the transducer to function. Plug the connector into the transducer and check for voltage between Pin A (sensor ground) and pin C (sensor signal) at the transducer. With zero pressure/suction at the pump, this voltage should be between 500 mV and 900 mV, if it is not, replace the transducer. Check for voltage at the display between pin 6 (sensor ground) and pin 2 (signal). With zero pressure/suction at the pump, this voltage should be between 500 mV and 900 mV. If it is not, check the wiring from the transducer to the display. If the correct voltage is present at pin 2, replace the display.