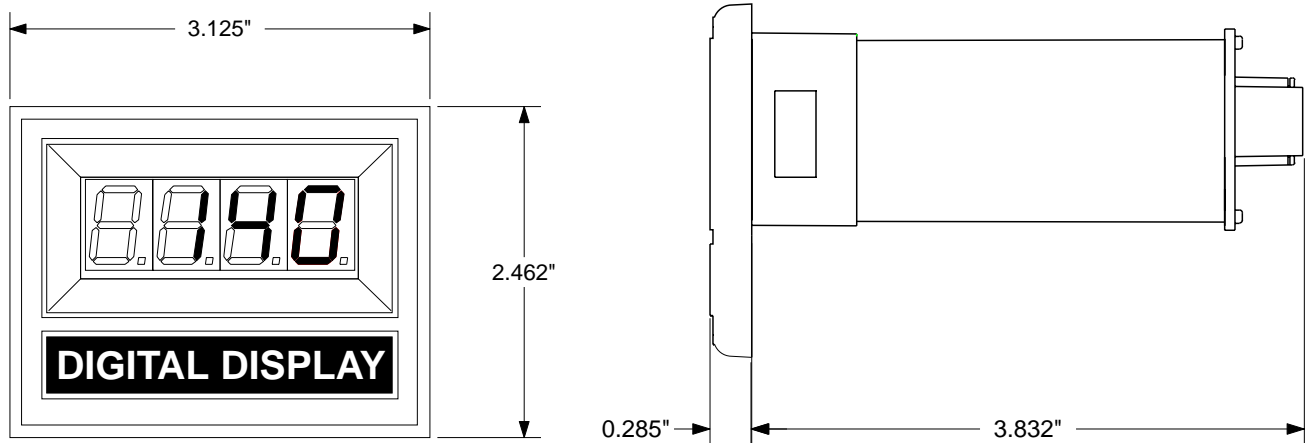
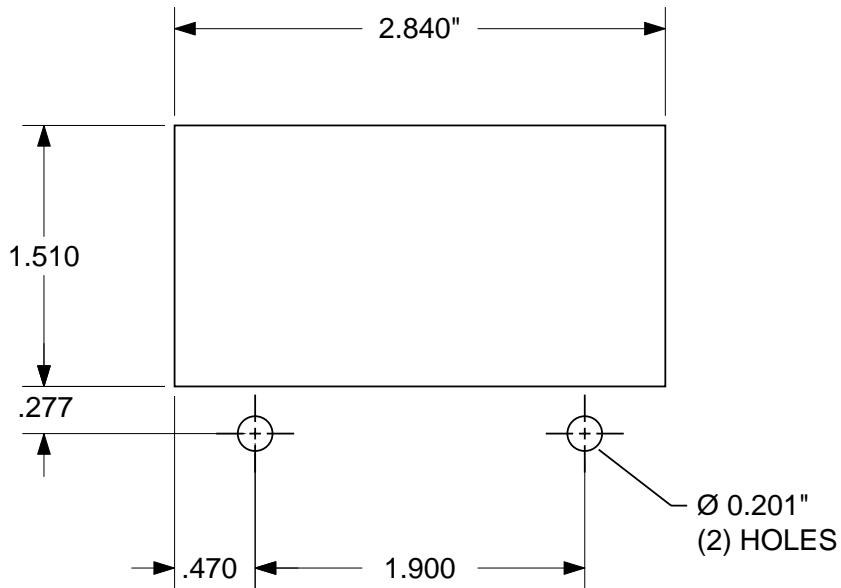


Name	Digital Pressure Gauge	Engineering Standard Number <b>C1-102190-A</b>
Identifier	Instructions	

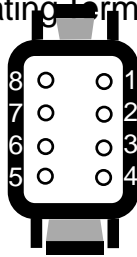
The **Class 1** digital display mounts in a 2.85" by 1.55" cutout.  
 Overall area necessary for installation is 2.5" by 3.2".  
 Two 0.20 diameter holes are provided for mounting screws.



Name	Digital Pressure Gauge	Engineering Standard Number <b>C1-102190-A</b>
Identifier	Instructions	

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



Wire Insertion View

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

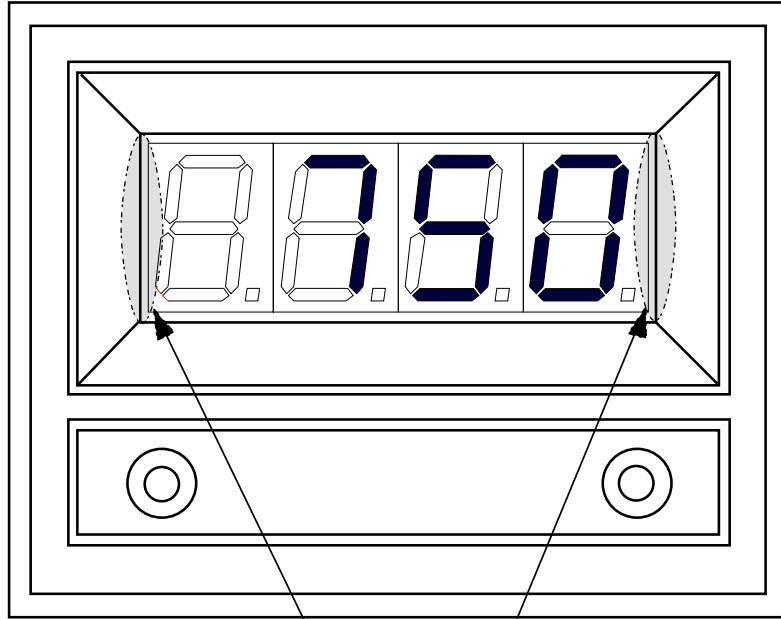
Not all of the digital displays use all of the terminals.  
 See individual display pages for application information.

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

Harness Part Numbers by length and application.

	5'	10'	20'	30'
Pressure Display	102060	102035	102061	102271
Dual Display "Y"			102294	102295
Display Pigtail	102272		Extension 15'	103367

Name	Digital Pressure Gauge	Engineering Standard Number <b>C1-102190-A</b>
Identifier	Instructions	



## Location of Magnetic Switches

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.

**L** E F T **R** I G H T **R** I G H T **L** E F T **L** E F T

***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.

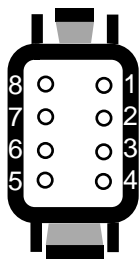
The display will read ***done*** and then return to normal operation.

Name	Digital Pressure Gauge	Engineering Standard Number <b>C1-102190-A</b>
Identifier	Instructions	

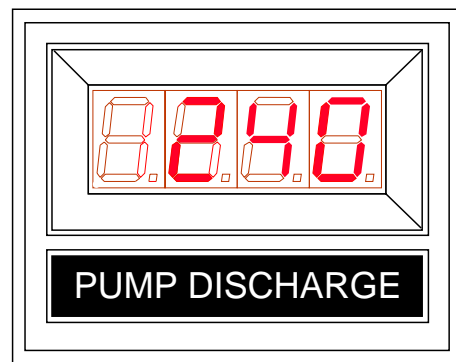
## Installation and Operation of the **Class 1** Digital Pressure Gauge.

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.



Wire Insertion View



Operation is straightforward.

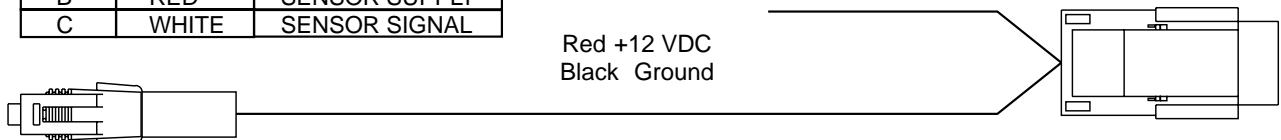
When the unit is turned on, the display indicates pump pressure at the transducer location. Normally no calibration is required, however if the gauge does not read zero when the pump is not running, a ZERO calibration can be performed. Password **L R R L L**.

This feature is available only on rP1.7 and above.

Harness PN 102060 5'  
102035 10'  
102061 20'

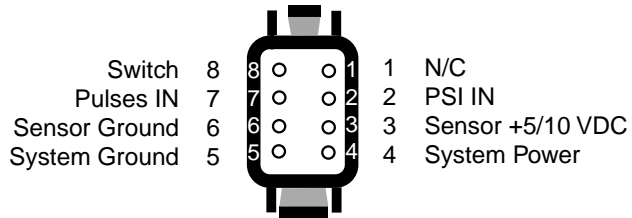
PIN	COLOR	FUNCTION
1	PLUG	
2	WHITE	SIGNAL
3	RED	SENSOR SUPPLY
4	RED	POWER IN
5	BLACK	GROUND IN
6	BLACK	SENSOR GROUND
7	PLUG	
8	PLUG	

PIN	COLOR	FUNCTION
A	BLACK	SENSOR GROUND
B	RED	SENSOR SUPPLY
C	WHITE	SENSOR SIGNAL

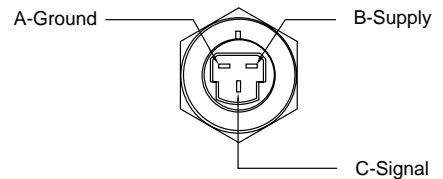


Name	Digital Pressure Gauge	Engineering Standard Number <b>C1-102190-A</b>
Identifier	Instructions	

DTM06-08SA  
0462-201-20141 20 Ga.



Wire Insertion View



Pressure Transducer Pinout

**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 *SEn5*.**

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.