
Dynatron 2000

*Attention**Dan*

Appendix D Transducer Calibration

The transducer is calibrated at the factory, and should arrive with the D2000 system still properly calibrated. In order for the transducer to provide accurate strength measurements, it must be checked periodically and adjusted if necessary. Dynatronics recommends a calibration log be maintained, showing when calibration was checked and what the readings were.

While calibration sounds a little more technical in nature, it is really very easy to perform. Carefully follow the steps outlined and refer to the figure on the next page for locations of adjustment screws.

You will need two tools to perform the calibration. Both of these tools are supplied by Dynatronics.

- An adjusting tool
- A shoring switch

The diagram on the following page shows the switching tool and the adjustment screws that are used in calibration.

1. Exit out of the Dynatron 2000 program by pressing the ESC key until you see the screen showing the computer is "PARKED". Do not turn off the computer.
2. Type TRCAL and press ENTER.
3. Plug the transducer into the left plug on the front of the computer. **There should be no weight on the transducer during calibration.**
4. Plug the shoring switch into J1 (see figure on next page for location).
5. Switch the shoring switch to the ORANGE position, then look at your monitor screen and make a note of the UNITS reading displayed there.
6. Switch the shoring switch to the YELLOW position, and again make a note of the UNITS reading displayed on your monitor.
7. Compare the UNITS readings for both the ORANGE and YELLOW positions. If the two readings are within one or two UNITS of each other, and are in the range of 190 UNITS (when cold) and 205 UNITS (operating temperature), the transducer is in calibration, and you can now disconnect the shoring switch.

If the transducer is out of calibration you will need to adjust the adjusting screws until the ORANGE and YELLOW UNITS are equal. Go on to the following steps.

8. Switch the shoring switch to the ORANGE position. Now, using the adjusting tool, turn the ADJUSTMENT SCREW (this is the screw next to the ORANGE DOT) until you get a reading of 197 UNITS.
9. Switch the shoring switch to the YELLOW position. Now, using the adjusting tool, turn the ADJUSTMENT SCREW (this is the screw next to the YELLOW DOT) until you get a reading of 197 UNITS.

Now repeat steps 8 and 9, continuing to watch the UNITS on the monitor until the two readings are equal. Do not make any further adjustments without consulting Dynatronics.

NOTE: The transducer's zero pounds reading will be adjusted for by the computer as long as the UNITS are equal and within the range of 190 to 205 UNITS.