Quick Start Proving Instructions for Dresser Electronic Temperature Compensator (ETC)
Proving the ETC with Dresser Model 5 Transfer Prover

1. Establish IrDA Cable Connection
A. Insert the IrDA adapter in the cover of the ETC, as shown in Figure 1.
B. Attach the cable connector of the IrDA to the ID Pulser connection port on the Prover field meter junction box, as shown in Figure 1.
C. Turn on the power switch of the Model 5 Prover, and wait for light on the IrDA to come on and start flashing.
D. Once the ETC unit is put into “Prove Mode,” the flashing light changes to a solid light, as shown in Figure 2.

2. Verify Prove Mode Enabled on the ETC
If you are able to scroll to a screen stating “PROV_C.V” (for compensated testing) or to “PROV_NC.V” (for non-compensated testing) the ETC is already configured for proving. Refer to the Proving Section of the ETC IOM manual if the “PROV” screens do not appear.

3. Prove Compensated Volume
A. Swipe the magnet across the “Swipe” line until the screen displays PROV_C.V (Figure 3), and then stop swiping.
B. After five seconds, the display will change to PROVE_I.C.V (Figure 4).
C. Hold the magnet for about five seconds on the word “SWIPE” until the display changes to PRVE_CO.R (Figure 5).
D. Exit Prove Mode by holding the magnet on the word “Swipe” for five seconds.

4. Prove Non-Compensated Volume
A. Swipe the magnet across the “Swipe” line until the screen displays PROV_N.C.V (Figure 6), and then stop swiping.
B. After five seconds, the display will change to PROVE_I.U.V (Figure 7).
C. Hold the magnet for about five seconds on the word “SWIPE” until the display changes to PRVE_NC.V (Figure 8).
D. Exit Prove Mode by holding the magnet on the word “Swipe” for five seconds.

5. Model 5 Prover Software Configuration
The Model 5 Prover software must be set up as circled on the left side of the screen shot as shown in Figure 9. The TC options box must also be set for Diaphragm TC for all meter sizes, as circled in Figure 9. For reference, the values for the prover configuration are explained in Section 6.

Note: The recommended pulses per test and test volume are shown in Table 1 according to meter size. Using the shown values will allow for a test lasting a minimum of the factory recommended 30 seconds.

Click Start and the prover test will begin to run.

For more information on the prover configuration screen, please refer to the ETC IOM manual.

<table>
<thead>
<tr>
<th>Meter Size</th>
<th>Flow Rate (% of Maximum Flow Rate)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>100% Min. # of Pulses Min. Test Volume</td>
</tr>
<tr>
<td>8C</td>
<td>8 10 10 4 4</td>
</tr>
<tr>
<td>11C</td>
<td>15 15 5 5</td>
</tr>
<tr>
<td>15C</td>
<td>20 20 5 5</td>
</tr>
<tr>
<td>2M</td>
<td>30 30 5 5</td>
</tr>
<tr>
<td>5M</td>
<td>50 50 10 10</td>
</tr>
<tr>
<td>7M</td>
<td>70 70 15 15</td>
</tr>
<tr>
<td>11M</td>
<td>20 200 5 50</td>
</tr>
<tr>
<td>16M</td>
<td>20 200 5 50</td>
</tr>
</tbody>
</table>
6. Adding Additional Test Points:

- **Flow Rate:** To add additional test points, enter the desired flow rate in the next available box in the “Flow Rate” column. Figure 9 shows a value of “1600” representing 10% of flow for a 16M meter.

- **Volume:** Enter the desired test volume. Suggested values are provided in Table 1. A value of “20” is shown in Figure 9 representing the recommended test volume for testing a 16M meter at 10% of maximum flow rate.

- **Drive Rate/PPT:** As stated previously, the drive rate will always match the volume.

- The remaining boxes in the row will auto populate based on the current prover default settings.

- Start this process again to continue adding additional test points. Always start with the highest flow rate and progress downward to the lowest flow rate.

Important: When entering values, always move to the next box by either pressing “Enter” or using the cursor. Using “Tab” will cause errors in the test configuration.

Note: Contact factory to request pre-configured test files if preferred.