Calibrate Veltron DPT-plus Transmitter

Tank Farm Maintenance Procedure

USQ # Routine Maintenance

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<th>Release Date</th>
<th>Justification</th>
<th>Summary of Changes</th>
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<td>C-0</td>
<td>03/09/2015</td>
<td>Periodic Review</td>
<td>Added Sections 2.2, and 3.1. Special Instructions prior to Step 5.1. Note prior to Step 5.2.2. Added Step 5.2.4.2 and New Section 5.3. Reworded Section 1.1 &amp; 1.2. Reworded Steps 5.1.4, 5.1.5, 5.2.2, 5.2.3, 5.2.4.1. Struck Step 5.2.1. Struck Original Section 5.3.</td>
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<td>B-3</td>
<td>10/22/2014</td>
<td>CHAMPS Removal</td>
<td>CHAMPS removal, new records statement.</td>
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<td>B-2</td>
<td>02/22/2013</td>
<td>DOE Standard</td>
<td>Replaced references to document TFC-ESHQ-S-STD-03, Electrical Safety with DOE-0359, Hanford Site Electrical Safety Program.</td>
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<tr>
<td>B-1</td>
<td>05/10/2012</td>
<td>Changes identified as needed by Procedures Group because of Low Voltage Work.</td>
<td>Page 4: Removed “serious” and “or death” from step 3.1.2. Page 7: clarified steps 5.3.1 and 5.3.2 to include “output 1”. Page 8: remove unnecessary words, “otherwise continue”.</td>
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1.0 PURPOSE AND SCOPE

1.1 Purpose

This procedure provides instructions to calibrate Veltron DPT-plus pressure indicating transmitter with Bi-Polar Span.

1.2 Scope

This procedure provides directions for Set-Up and Calibration of Veltron DPT-plus pressure indicating transmitter with Bi-Polar span.

2.0 INFORMATION

2.1 Terms and definitions

- "ESCAPE" is designated on the front face of the transmitter as a graphic looking like an X inside a circle similar to (X)
- "ENTER" is designated on the front face of the transmitter as a graphic looking like a left arrow with a vertical staff inside a circle similar to ().

2.2 General Information

2.2.1 Veltron DPT-plus pressure indicating transmitter with Bi-Polar span requires both an input calibration and an output calibration each time the unit is calibrated (see Air Monitor Corporation vendor manual 116-010-90.P65, Section 6.3.2).

2.2.2 Transmitter Reset (Attachment 5) may be performed any time during the calibration process if the unit becomes locked-up or is not responding.
3.0 PRECAUTIONS AND LIMITATIONS

3.1 Personnel Safety

3.1.1 All identified hazards will be addressed in the pre-job safety meeting.

3.1.2 If working around live circuits, extreme caution should be used. Failure to follow electrical safety practices as outlined in DOE–0359, Hanford Site Electrical Safety Program could result in injury.

3.1.3 If a lock and tag is required during the performance of this procedure, perform Lockout/Tagout in accordance with DOE-0336, Hanford Site Lockout/Tagout Procedure.

3.2 Radiation and Contamination Control

3.2.1 When disconnecting, breaching or opening systems or system components that are currently or previously connected to waste tanks or waste transfer systems;
   - Continuous HPT coverage is required
   - Pre-job and post-job surveys are required
   - An absorbent or damp rag will be used to contain the breach until radiological verifications have been performed.

3.2.2 Work in radiological areas will be performed using a radiation work permit following review by Radiological Control per the ALARA Work Planning procedure TFC-ESHQ-RP_RWP-C-03.

3.3 Environmental Compliance

3.3.1 Radiological Survey Report(s) (RSRs) numbers are to be documented in the work record.

3.3.2 Waste that is generated as part of the performance of work is to be managed per procedure T0-100-052, “Perform Waste Generation, Segregation, Accumulation and Clean-up.”

3.3.3 To ensure reporting requirements are met, all planned and unplanned outages of ventilation equipment and exhaust monitoring systems must be immediately reported to affected Shift Office and Environmental, in compliance with procedures TF-REC-001 and TFC-ESHQ-ENV_FS-C-01.
4.0 PREREQUISITES

4.1 Special Tools, Equipment, and Supplies

The following supplies may be needed to perform this procedure:

- CVI Air Monitor Corporation PN 116-010-90.P65
- Digital multimeter capable of measuring range and accuracy stated on Data Sheet
- Digital manometer capable of range and tolerance per Data Sheet (or equivalent)
- Applicable hand tools
- Other tools, equipment and supplies as identified by Shift Manager/OE/FWS/User.

4.2 Performance Documents

The following documents may be needed to perform this procedure:

- DOE–0359, Hanford Site Electrical Safety Program
- Lifted/Landed Lead Record (A-6003-876 or similar document).
5.0 PROCEDURE

Special Instructions

If at any time during the Procedure Performance the Transmitter becomes locked-up, or not responding, go to Attachment 5 – Transmitter Reset.

Special Instructions

If any step is not required for procedure completion, record “N/A” in the applicable space(s) on the Data Sheet and document the justification in the Data Sheet’s Comments/Remarks section.

5.1 Initial Setup

5.1.1 REMOVE both covers (front and back).

5.1.2 SLIDE switch S1 - "AZ Valve" to OFF position.

5.1.3 ISOLATE process tubing.

5.1.4 HOOK UP DMM per Figure 3.

5.1.5 CONNECT Calibration Setup per Figure 2.

5.1.6 SLIDE switch S1 - "AZ Valve" to ON position.
5.2 Obtain As-Found

NOTE - Veltron DPT-plus will display warm-up routine prior to switching to normal operation display.

- Screen will scroll (sequentially) through its startup routine and stop at operating screen.

- Some Veltron DPT-plus have an integral alarm/switches built in which cannot be adjusted but can be determined working in tolerance. Most of them are "alarm on decreasing pressure" and are designated on the Data Sheet.

- Units with Alarm Setpoint(s) will be verified while obtaining As-Found values.

- To see Alarm Options refer to Attachment 2 and to see Alarm Configurations refer to Attachment 3.

5.2.1 ENSURE Veltron DPT-plus is powered up.

Special Instructions

For “Negative” values and alarms, pressure is applied to the Low pressure Transmitter port.

For “Positive” values and alarms, pressure is applied to the High pressure Transmitter port.

5.2.2 APPLY input values (as read on manometer) to Transmitter per Data Sheet AND

RECORD As-Found values on Data Sheet.

5.2.2.1 IF Unit under test has Alarm Setpoint(s) OBTAIN value(s) AND

RECORD As-Found alarm Setpoint(s) on Data Sheet.

5.2.3 IF As-Found data is not within tolerance per Data Sheet, PERFORM the Transmitter Calibration per Section 5.3

AND/OR

IF As-Found Alarm data is not within tolerance per Data Sheet, PERFORM Alarm configuration per Attachment 3.
5.2 Obtain As-Found (Cont.)

5.2.4 IF As-Found data is within tolerance per Data Sheet, **PERFORM** the following:

5.2.4.1 **RECORD** the Transmitter As-Found data in As-Left column of Data Sheet.

5.2.4.2 **IF** Unit under test has Alarm Setpoint(s) **RECORD** the As-Found Alarm Setpoint(s) in As-Left column of Data Sheet.

5.2.4.3 **GO TO** Section 5.5.
5.3 Transmitter Input Calibration

**INPUT Calibration for units with “Bi Polar Span”**

5.3.1 **CONNECT** input pressure to Low Port of Transmitter.

5.3.2 **WHILE** in the Main Menu **SCROLL** to:

```
Transmitter Input Calibration --
```

5.3.3 **PRESS** () and display will indicate:

```
Transducer Zero
Calib: x.xx in. WC
```

5.3.4 **PRESS** switch S1 – “AZ Valve” to OFF position.

5.3.5 **APPLY** input pressure per Data Sheet (as read on manometer) to the Low Port of the transmitter.

5.3.6 **ADJUST** pressure to equal the positive equivalent of the minimum (negative) value **Per Data Sheet** (which will be indicated on the display).

5.3.7 **PRESS** () and display will indicate:

```
Transducer Zero
-- Push ENTER--
```

5.3.8 **PRESS** () and display will indicate:

```
Transducer Zero
Settle Time: 4
```

5.3.9 **ALLOW** display to count down to “0” after which it will indicate:

```
Input Zero Done
--Push ESCAPE--
```

5.3.10 **PRESS** (X) AND

**THEN PRESS** (▲); display will indicate:

```
Transducer Span
Calib: +X.XX in. WC
```

5.3.11 **CONNECT** input pressure to High Port of Transmitter.
5.3 Transmitter Input Calibration (Cont.)

INPUT Calibration for units with “Bi Polar Span”

5.3.12 **APPLY** maximum input pressure (as read on manometer) to High Port of Transmitter per Data Sheet.

5.3.13 **ADJUST** pressure to equal the maximum (positive) span value per Data Sheet (which will be indicated on the display).

5.3.14 **PRESS (▼)** and display will indicate:

- **Transducer Span**
- -- Push ENTER--

5.3.15 **PRESS (▼)** and display will indicate:

- **Transducer Span**
- Settle Time: 4

5.3.16 **ALLOW** display to count down to “0” after which it will indicate:

- **Input Span Done**
- --Push ESCAPE--

**NOTE** - If pressure input is less than 40% or greater than 110% of transducer’s maximum (positive) Natural span value range, display will indicate:

- **Bad Input Span**
- --Push ESCAPE--

5.3.17 **IF** “Bad Input Span” occurs, **CHECK** input pressure on manometer **AND** **RE-ADJUST** as necessary.

5.3.17.1 **PRESS (X); RETURN** to Step 5.3.11 AND **CONTINUE** with Procedure from that point.

5.3.18 **REMOVE** input pressure from High port on Transmitter.

5.3.19 **PRESS (X) AND**

**THEN PRESS (▲);** display will indicate:

- **Return to**
- **Main Menu**

5.3.20 **PRESS (▼)** and display will be in Main Menu.
5.4 Transmitter Output Calibration

OUTPUT Calibration for units with “Bi Polar Span”

NOTE - Only output 1 is calibrated during this procedure.

5.4.1 PRESS (▲) or (▼) keys until display reads:

Transmitter Output Calibration

5.4.2 PRESS (◄) and display will indicate:

OutPut 1 Zero

5.4.3 PRESS (◄) and display will indicate:

Output 1 Zero
Perform Calibration

5.4.4 CONNECT DMM set for mADC in series with output 1 per Figure 3.

5.4.5 CHECK DMM is reading minimum value per Data Sheet.

NOTE - Depending on DMM’s selected range, the (▲) or (▼) button may need to be pressed and held for a period of time before any change occurs in the DMM’s display.

5.4.6 IF DMM value is out of tolerance per Data Sheet USE (▲) or (▼) to adjust unit to minimum value per Data Sheet

5.4.7 IF necessary to speed up changes in output, REFER to Attachment 4 for pushbutton combinations used to speed up display.
5.4 Transmitter Output Calibration (Cont.)

OUTPUT Calibration for units with “Bi Polar Span”

5.4.8 ONCE an acceptable zero reading is obtained, PRESS (◄) AND

THEN PRESS (▲) and display will indicate:

OutPut 1 Span

5.4.9 PRESS (◄) and display will indicate:

OutPut 1 Span
Perform Calibration

5.4.10 CHECK DMM is reading maximum value per Data Sheet.

5.4.11 IF DMM value is out of tolerance per Data Sheet USE (▲) or (▼) to adjust unit to maximum value per Data Sheet.

5.4.12 ONCE an acceptable span reading is obtained, PRESS (◄) AND

THEN PRESS (▲) and display will indicate:

NOTE - Only output 1 is calibrated. Output 2 is skipped.

OutPut 2 Zero

5.4.13 PRESS (▲) until display indicates:

Return to Main Menu

5.4.14 PRESS (◄) and SCROLL Main Menu to:

EXIT
User Setup

5.4.15 PRESS (◄) and Transmitter will return to Normal mode of operations.
5.4 Transmitter Output Calibration (Cont.)

5.4.16 APPLY inputs per Data Sheet AND
CHECK output values for tolerance.

5.4.17 IF values are within tolerance per Data Sheet, RECORD As-Left values on Data Sheet AND
GO TO Restoration, Section 5.5.

5.4.18 IF values are not within tolerance per Data Sheet, REPEAT Steps 5.4.1 through 5.4.17 AND
IF unable to bring values into tolerance NOTIFY FWS for resolution.

5.5 Restoration

5.5.1 IF any problems were encountered with calibration, INFORM FWS.

5.5.2 IF not already removed, DISCONNECT AND REMOVE test equipment.

5.5.3 IF not already done, RECONNECT field wiring and process tubing.

5.5.4 RE-INSTALL both covers (front and back).

5.5.5 RETURN the instrument to proper configuration or as directed by the Shift Manager.

5.5.5.1 IF given directions by Shift Manager, RECORD those directions on Data Sheet comments section or work record.

5.5.6 CHECK equipment restoration by observing indications are consistent with system configuration.

5.5.7 RECORD test equipment information and calibration status on Data Sheet.

5.6 Acceptance Criteria

Acceptance Criteria has been met when steps in this procedure have been satisfactorily performed and As-Left values meet the specifications and tolerance(s) per the Data Sheet.
5.7 Review

5.7.1 INFORM FWS calibration is complete.

5.7.2 FWS must REVIEW AND ENSURE the following:

- Completed Data Sheets meet the acceptance criteria
- Comments sections are filled out appropriately
- Work requests needed as a result of this procedure are identified and generated
- As applicable, work request number(s) of any work documents generated as a result of this procedure are recorded in Comments/Remarks section of Data Sheet.

5.8 Records

The performance of this procedure generates no records. However, PM Data Sheets associated with the procedure, are records and are maintained in the work package as record material.

The record custodian identified in the Company-level Records Inventory and Disposition Schedule (RIDS) is responsible for record retention in accordance with TFC-BSM-IRM_DC-C-02.
Calibrate Veltron DPT-plus Transmitter

Figure 1 - Veltron DPT-plus Front Face
Calibrate Veltron DPT-plus Transmitter

Figure 2 - Veltron DPT-plus Calibration Setup

1. Connect minimum input value to low port on Transmitter.

2. Connect maximum input value to high port on transmitter.
Calibrate Veltron DPT-plus Transmitter

Figure 3 - Veltron DPT-plus Connections

<table>
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<tr>
<th>Test equipment connections</th>
<th>Veltron DPT-plus terminals</th>
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<tr>
<td>+ 24vdc</td>
<td>LINE</td>
</tr>
<tr>
<td>- 24vdc</td>
<td>NEUT</td>
</tr>
<tr>
<td>Meter 1</td>
<td>SIG COM</td>
</tr>
<tr>
<td>Meter 1</td>
<td>OUT-1</td>
</tr>
</tbody>
</table>

AUTO-purge
Power Jumpers
**Calibrate Veltron DPT-plus Transmitter**

**Attachment 1 - Configuration Menu**

Note; User selectable parameters are limited to standard features and those available for options installed at the factory. The following will detail all user parameters, which may or may not be available on your unit.

With power ON and initialization complete (see vendor manual Section 5.2), press ( setSize ) and display will indicate:

**USER SETUP**

Pressing ( setSize ) will enter the user into the Main Menu of configuration programming. The display will indicate:

Transmitter Scaling and Configuration →

By using the (↑) and (↓), the user can scroll through the following selections:

<table>
<thead>
<tr>
<th>MAIN MENU SELECTION</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>Transmitter Scaling &amp; Configuration</td>
<td>Allows for the configuration of process variable such as: Density Compensation Type, Square root, process type, process minimum/maximum/units, duct area, percent lockdown, and Temperature configuration. Also offers a Flow/D.P. calculator that allows user to calculate maximum flow or differential pressure based on entered variables.</td>
</tr>
<tr>
<td>Low Pass Filter Selection</td>
<td>Selects amount of filtering applied to transducer output.</td>
</tr>
<tr>
<td>AUTO-zero Configuration</td>
<td>Turns AUTO-zero function ON or OFF, and selects activation interval.</td>
</tr>
<tr>
<td>AUTO-purge Configuration</td>
<td>Refer to AUTO-purge Installation, Operation &amp; Maintenance Manual for configuration information.</td>
</tr>
<tr>
<td>Alarm Configuration</td>
<td>Turns alarm function ON or OFF, select Alarm Type, High and Low Setpoints, Dead band selection, and Alarm Delay.</td>
</tr>
<tr>
<td>K-Factor Configuration</td>
<td>Turns K-Factor ON or Off, and allows for the calculation or selection of gain and bias values.</td>
</tr>
<tr>
<td>Display Configuration</td>
<td>Allows for the configuration of Display Parameters and Filters.</td>
</tr>
<tr>
<td>Analog Output Configuration</td>
<td>Allows for the selection of Analog Output 2 parameter.</td>
</tr>
<tr>
<td>Transducer Span Selection</td>
<td>Allows for displaying the natural span of the installed transducer, and selecting the operating span.</td>
</tr>
<tr>
<td>Transmitter Input Calibration</td>
<td>Allows for the zeroing and spanning of transmitter analog Inputs.</td>
</tr>
<tr>
<td>Transmitter Output Calibration</td>
<td>Allows for the zeroing and spanning of transmitter analog Outputs.</td>
</tr>
<tr>
<td>Transducer Characterization Selection</td>
<td>Allows transducer characterization data to be entered when transducer is replaced.</td>
</tr>
<tr>
<td>Display Internal Temperature</td>
<td>Allows for displaying the internal temperature of the VELTRON DPT-plus unit.</td>
</tr>
<tr>
<td>Perform Transmitter Reset</td>
<td>Allows for restarting the transmitter in case of lock-up.</td>
</tr>
<tr>
<td>Exit User Setup</td>
<td>Returns display to Normal operation.</td>
</tr>
</tbody>
</table>
One choice among three alarm types are available to the user: Low/High; Low1/Low2; or High1/High2.

Alarm On/Off, Type, Setpoints, Deadbands, and Delays are available by going to “User Setup Menu” then selecting “Alarm Configuration”.

**Alarm Point layout in reference (orientation) to the Process Signal**

```
Low/High Alarm Point

Process Signal

Low Alarm Point

High Alarm Point

Low1 Low2 Alarm Point

High1 High2 Alarm Point

High1 High2 Alarm Point

Process Signal
```
Attachment 3 – Alarm Configuration

User can turn Alarm function ON or OFF, select type of alarm (Features for description of different Alarm types), and set the following values:

**Low Setpoint** (Low, Low1, or High1 depending on Alarm Type): Selected value of transmitter span, below (for Low and Low1) or above (for High1) which an alarm condition will exist. Value is selected in same units as transmitter format (i.e. “H₂0”).

**High Setpoint** (High, Low2 or High2, depending on Alarm Type): Selected value of transmitter span, below (for Low2) or above (for High and High2) which an alarm condition will exist. Value is selected in same units as transmitter format (i.e. “H₂0”).

Attachment 3 continued on next page
Attachment 3 – Alarm Configuration (Cont.)

**Alarm Deadband:** Value that transmitter signal has to reach above (for Low, Low1 or Low2) or below for High, High1 or High2) before an activated alarm will reset. Value is selected in the same units as transmitter span.

**Alarm Delay:** Time between an alarm condition existing and alarm activation. Adjustable between 0.0 and 10.0 minutes in 0.1 minute increments.

**View and/or Configure Alarm Setpoint(s)**

1. While in Main Menu, Use (▲) or (▼) keys to scroll to:

   ![Alarm Configuration ---]

2. Press (◄) to enter Alarm Configuration menu. Display will indicate:

   ![Alarm 1 Off/On Selection.]

3. Press (◄) and display will indicate current setting of Alarm (OFF or ON):

4. Use (▲) or (▼) keys to change setting. Once desired setting is displayed, Press (◄). New setting will be stored in memory and display will return to Alarm Configuration menu as in Step 2.

   **NOTE:** If user desires not to change the setting and return to Alarm Configuration menu, Press (X). Unit will remain programmed as it was originally.

5. Use (▲) or (▼) keys to select remaining parameters to be changed.

6. Follow Step 4 to make any changes to parameters.

7. To return to Main Menu, Select RETURN TO MAIN MENU in Alarm Configuration menu and Press (◄).
Attachment 4 - Pushbutton Combination

Pushbuttons are momentary type and should be quickly pressed and released to initiate desired change, unless otherwise instructed to press and hold.

The following pushbutton combinations can be used to more quickly set user selected values such as mA readings, Alarm Setpoints, Characterization values, etc.

- \( \uparrow \ast + \downarrow \) Increase the second column digit.
- \( \downarrow \ast + \uparrow \) Decrease the second column digit.
- \( \uparrow \ast + \downarrow \) Increase the third column digit.
- \( \downarrow \ast + \uparrow \) Decrease the third column digit.
- \( \uparrow \ast + \downarrow \) and \( \downarrow \) Increase the fourth column digit.
- \( \downarrow \ast + \downarrow \) and \( \uparrow \) Decrease the fourth column digit.

*Must be pressed and held before other button(s) are pressed.
Calibrate Veltron DPT-plus Transmitter

Attachment 5 – Transmitter Reset

1. **IF** at any time during the calibration process the unit becomes locked-up or not responding, **GO TO** Main Menu by pressing (X) AND THEN **PRESS** (▲) display will indicate.

   ![Return to Main Menu]

2. **PRESS** (↱) and display will be in Main Menu.

3. **PERFORM** the following:

   ![Main Menu]

4. **WHILE** in the Main Menu, **USE** (▲) or (▼) to scroll to:

   ![Perform Transmitter Reset]

5. **PRESS** (↱) and display will indicate:

   ![Reset Transmitter---NO]

6. **PRESS** (▲) to scroll to **YES** AND **PRESS** (↱) to complete the action.

   **NOTE** - The dot in the upper right of the “Start-Up” display will blink approximately once per second, then increase to 4 times per second when in normal operational mode.

7. **ALLOW** time (≥10 seconds) to perform AUTO-zero and return to **NORMAL** operation mode.