ICD-HP Firmware (v1.15.000) – 2/5/2021

\*\* DVT Release Only \*\*

| **New Features** | | | |
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| **Item** | **TTP#** | **Category** | **Description** |
| 1 | N/A |  |  |

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| **Fixed Issues** | | | |
| **Item** | **TTP#** | **Category** | **Description** |
| 1 | N/A | Decoder Image | Updated ICD-x00 Decoder Image to v1.09.000 |
| 2 | N/A | Decoder Image | Updated PILOT-x00 Decoder Image to v1.08.000 |
| 3 | DF-41 | Decoder Update | Changed UpdateDecFWCompleteDspl\_1 to display the output 1 station ID after the decoder update is complete |
| 4 | DF-42 | Decoder Update | Added UpdateDecFWDspl\_3() to case SET\_FW\_START\_LOCATION: to fix DF-42 |

ICD-HP Firmware (ENG v0.04.109) – 2/5/2021

\*\* Internal Release Only \*\*

| **New Features** | | | |
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| **Item** | **TTP#** | **Category** | **Description** |
| 1 | N/A | Version | Updated the version # to v0.04.109 |

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| **Fixed Issues** | | | |
| **Item** | **TTP#** | **Category** | **Description** |
| 1 | N/A | Decoder Image | Updated ICD-x00 Decoder Image to v1.09.000 |
| 2 | N/A | Decoder Image | Updated PILOT-x00 Decoder Image to v1.08.000 |

ICD-HP Firmware (v1.13.000, ENG v0.04.099) – 5/2/2019

\*\* Production Release \*\*

| **New Features** | | | |
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| **Item** | **TTP#** | **Category** | **Description** |
| 1 | N/A | Version | Updated the version # to v1.13.000 |

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| **Fixed Issues** | | | |
| **Item** | **TTP#** | **Category** | **Description** |
| 1 | 39 | Diagnostics | Fix Flow Rate Displayed in Get Decoder Status and Flow Simulator is GPM Value When Units of Measure is Set to Metric. Added missing conversion of Flow Rate value from GPM to LPM in GetDecoderStatusFunc and TestFlowSimFunc. |

ICD-HP Firmware (v1.12.000, ENG v0.04.097) – 9/25/2018

\*\* Internal Release Only \*\*

| **New Features** | | | |
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| **Item** | **TTP#** | **Category** | **Description** |
| 1 | N/A | Version | Updated the version # to v1.12.000 |
| 2 | N/A | Sensor Decoder | Included Sensor Decoder image v1.05.000 |

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| **Fixed Issues** | | | |
| **Item** | **TTP#** | **Category** | **Description** |
| 1 | 32 | Diagnostics | ICD-HP Calculated Flow Rate is Lower Than Expected for HFSFCT300 |
| 2 | 36 | Diagnostics | For Flow Output Tester with Sensor Set to Other, Large Values of Flow Rate Do Not Display Properly |
| 3 | 37 | Get Decoder Status | For Flow Simulator and Sensor Set to Other, Read Rate Displays as 9999 GPM For Negative Calculated Flow Rate |
| 4 | 38 | Get Decoder Status | Improper display of Sensor Decoder Flow Sensor Offset Value in Get Decoder Status function screen |

ICD-HP Firmware (v1.11.000, ENG v0.04.095) – 4/5/2018

\*\* Production Release \*\*

| **New Features** | | | |
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| **Item** | **TTP#** | **Category** | **Description** |
| 1 | N/A | Version | Updated the reversion # to v1.11.000 |

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| **Fixed Issues** | | | |
| **Item** | **TTP#** | **Category** | **Description** |
| 1 | 32 | Diagnostics | ICD-HP Calculated Flow Rate is Lower Than Expected for HFSFCT300 |
| 2 | 33 | Diagnostics | In Flow Simulator Mode When Unit Under Test is Decoder, the Read Rate is Always 0 GPM Whenever the Expected Rate is Greater Than 100 GPM |

ICD-HP Firmware (v1.10.000, ENG v0.04.093) – 3/29/2018

\*\* Internal Release Only \*\*

| **New Features** | | | |
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| **Item** | **TTP#** | **Category** | **Description** |
| 1 | N/A | Version | Updated the reversion # to v1.10.000 |

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| **Fixed Issues** | | | |
| **Item** | **TTP#** | **Category** | **Description** |
| 1 | 27 | Diagnostics | In Flow Simulator, an Expected Negative Calc Rate is Displayed as a Large Positive Number |
| 2 | 28 | Programing | Get Decoder Info for ICD-SEN Configured as Other with Offset of 4 or Greater Displays Offset as Negative |
| 3 | 30 | Startup | After power-up of the ICD-HP, the units of measure always reverts to English. |

ICD-HP Firmware (v1.09.000, ENG v0.04.091) – 2/26/2018

\*\* Internal Release Only \*\*

| **New Features** | | | |
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| **Item** | **TTP#** | **Category** | **Description** |
| 1 | 25 | Flow Simulator | Fixed Calculated GPM display in Flow Simulator, when the Unit Under Test is set to Controller |
| 2 | N/A | Version | Updated the reversion # to v1.09.000 |

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| **Fixed Issues** | | | |
| **Item** | **TTP#** | **Category** | **Description** |
| 1 | N/A |  |  |

ICD-HP Firmware (v1.08.000, ENG v0.04.089) – 2/12/2018

\*\* Internal Release Only \*\*

| **New Features** | | | |
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| **Item** | **TTP#** | **Category** | **Description** |
| 1 | N/A | Decoder Image | Setup with automated build functions  Removed rebootloader images from release version |
| 2 | N/A | Version | Updated the reversion # to v1.08.000 for DVT |

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| **Fixed Issues** | | | |
| **Item** | **TTP#** | **Category** | **Description** |
| 1 | N/A |  |  |

ICD-HP Firmware (v1.07.205, ENG v0.04.087) – 1/09/2018

\*\* Internal Release Only \*\*

| **New Features** | | | |
| --- | --- | --- | --- |
| **Item** | **TTP#** | **Category** | **Description** |
| 1 | N/A | Decoder Image | Updated ICD-x00 Decoder image to v1.05.000  Updated ICD-SEN Decoder image to 1.04.000 |

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| **Fixed Issues** | | | |
| **Item** | **TTP#** | **Category** | **Description** |
| 1 | N/A |  |  |

ICD-HP Firmware (v1.07.203, ENG v0.04.083) – 12/5/2017

\*\* Internal Release Only \*\*

| **New Features** | | | |
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| **Item** | **TTP#** | **Category** | **Description** |
| 1 | N/A | Decoder Image | Updated ICD Decoder image to v1.03.205 |

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| **Fixed Issues** | | | |
| **Item** | **TTP#** | **Category** | **Description** |
| 1 | 23 | Program A Decoder | Changed the max P/MV value to 506 (P/MV 6) |

ICD-HP Firmware (v1.07.202, ENG v0.04.081) – 11/17/2017

\*\* Internal Release Only \*\*

| **New Features** | | | |
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| **Item** | **TTP#** | **Category** | **Description** |
| 1 | N/A | Decoder Image | Updated ICD Decoder image to v1.03.204 |

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| **Fixed Issues** | | | |
| **Item** | **TTP#** | **Category** | **Description** |
| 1 | N/A |  |  |

ICD-HP Firmware (v1.07.201, ENG v0.04.079) – 10/17/2017

\*\* Internal Release Only \*\*

| **New Features** | | | |
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| **Item** | **TTP#** | **Category** | **Description** |
| 1 | N/A | Decoder Image | Updated Sensor Decoder image to v1.03.205 |

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| **Fixed Issues** | | | |
| **Item** | **TTP#** | **Category** | **Description** |
| 1 | 17 | Globals | Removed state diagnostic number from lower left hand of display |
| 2 | N/A | Flow Sensor | Updated HFS K-factor and Offset values for ‘Flow Output Tester’ |
| 3 | N/A | Flow Sensor | Fixed the display of negative offsets |
| 4 | N/A | Power Manager | Added 100ms firmware debounce during power off process |

ICD-HP Firmware (v1.07.200) – 9/26/2017

\*\* Internal Release Only \*\*

| **New Features** | | | |
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| **Item** | **TTP#** | **Category** | **Description** |
| 1 | N/A | Update FW | Added ICD-x00 v1.03.202 and ICD-SEN v.103.204 firmware images |

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| **Fixed Issues** | | | |
| **Item** | **TTP#** | **Category** | **Description** |
| 1 | N/A |  |  |

ICD-HP Firmware (ENG v0.04.077) – 9/26/2017

\*\* Internal Release Only \*\*

| **New Features** | | | |
| --- | --- | --- | --- |
| **Item** | **TTP#** | **Category** | **Description** |
| 1 | N/A | Update FW | Added ICD-x00 v1.03.202 and ICD-SEN v.103.204 firmware images |
| 2 | N/A | Update FW | Added bootloader reflash images for each of the decoder types to reflash decoders that are pre-2013 v1.03.000 MDC |

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| **Fixed Issues** | | | |
| **Item** | **TTP#** | **Category** | **Description** |
| 1 | N/A |  |  |

ICD-HP Firmware (ENG v0.04.076 and v0.04.077) – 9/26/2017

\*\* Internal Release Only \*\*

| **New Features** | | | |
| --- | --- | --- | --- |
| **Item** | **TTP#** | **Category** | **Description** |
| 1 | N/A | Update FW | Added ICD-x00 v1.03.203 (All Knowing Mode v0.04.076), ICD-x00 v1.03.202 ( v0.04.077) and ICD-SEN v.103.204 firmware images |
| 2 | N/A | Update FW | Added bootloader reflash images for each of the decoder types to reflash decoders that are pre-2013 v1.03.000 MDC |
| 3 | N/A | Update FW | Reordered DECODER FIRMWARE menu for ENG Build |
| 4 | N/A | Update FW | Changed to look for the booloader version in app code and wait for the user to press the NEXT button before switching to bootloader mode. This gives the user a chance to bail if the bootloader version in the decoder is the same as the current version stored in the ICD-HP. |

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| **Fixed Issues** | | | |
| **Item** | **TTP#** | **Category** | **Description** |
| 1 | N/A | Get Decoder Status | Removed the ‘Damaged’ state as an option from the ‘Status’ line. If a decoders state is sent to the ICD-HP as damaged, the ICD-HP will not display damaged. |
| 2 | 21 | Program A Decoder | Added range check to the Inrush value entry. |