



Firmware/Software Release Note

Date: April 2024

Distribution: Public

Reference: 283v5

Firmware Updates Kelman Portable DGA

Products: Transport X2, and X2 2024

This replaces the ISN issued – December 2021

Introduction:

The Kelman Transport X2 portable DGA now has two hardware variants. A now legacy AC powered unit and a new Laptop style DC PSU. This document provides information about these firmware releases.

1. Transport X2 – 2024 - on (DC power)

Release #	Release Date	Key features/developments/improvements
3.2.0.34	March 2024	New features <ul style="list-style-type: none">• Tranfered all functonalty from 2.12.0 onto new platform

2. Transport X2 pre 2024 (AC power)

Release #	Release Date	Key features/developments/improvements
2.12.0.0	Dec 2021	New features <ul style="list-style-type: none">• Improved user messaging on “oil too hot” warning messages• Improved user messaging on atmospheric contamination warning messages• Addition of user-friendly passwords



		<p>Notable bug fixes</p> <ul style="list-style-type: none"> • Rollup of various small bugs (intermittently freezing), fixes, and interface clean ups
2.10.0.1	Jul 2020	<p>New features</p> <ul style="list-style-type: none"> • Display of recommended oil injection temperature, fan status and heating status on top right corner of the device • Ambient Contamination detection and user messaging has been improved. The unit is now able to detect certain patterns such as <ul style="list-style-type: none"> ○ increased Hydrogen (H₂) levels, which can be found nearby battery banks ○ increased Carbon-Dioxide levels (CO₂), which may occur if too many people are within one room or the car exhaust may be too close ○ usage of cleansing agents such as Isopropanol, which should never be used when cleaning the Transport X² equipment as this interferes with the sensitivity of the device. • New languages available from 2.10 onwards based on 3x regional packages. Upgrading from a previous version will enable by default the European package. The Japanese and Chinese packages can only be loaded by GE factory or GE field services. Please contact your local representative to get further details. <ul style="list-style-type: none"> ○ <i>European Package:</i> <ul style="list-style-type: none"> ▪ English (Default) ▪ Spanish ▪ Portuguese ▪ French ▪ German ▪ Polish ▪ Russian ○ <i>Japanese Package:</i> <ul style="list-style-type: none"> ▪ English ▪ Japanese ○ <i>Chinese Package</i> <ul style="list-style-type: none"> ▪ English ▪ Chinese • CSV export settings available to set list separator and decimal symbol. • Improvement to user instructions wording. • Log files now available as a ZIP without containing EXE files for easier file transfer via email. • Improvement of the sorting functionality when reviewing existing measurements.



		<p>Notable bug fixes</p> <ul style="list-style-type: none"> • Oil-Too-Hot error appearance has been greatly reduced by changes made of the internal warmup control. The user messaging has been improved and creates now more clarity if the oil is too warm or if unit requires further time to warmup. Any user waiting time will now be estimated by the device. • Fixed screen freeze issue after user data entry step 9 or 10, on “view results” page and “PC-Sync” screen • Fixed counter error for reminder of lid-assembly-filter replacement • Fixed fan operation bug during system flush process to allow better venting. • No more user data loss when downgrading the firmware from 2.10. or higher down to previous versions no lower than 2.2.0.0. Downgrading to version 2.1.* will still lose user data. Unit will perform a backup prior downgrading which could be restored. • Automatically save measurement directly after cycle. • Fixed H₂O measurement bug on ester oils.
2.6.3	Nov 2019	<p>New features</p> <ul style="list-style-type: none"> • Improved performance and diagnostics during system gas test and leak tests. • User instructions and messages have been updated and provide better clarification. • System Gas Check will produce a warning if executed outside recommended unit temperature limits of 15°C to 40°C • GE font implementation <p>Notable bug fixes</p> <ul style="list-style-type: none"> • Fixed inconsistent data rounding in Perception vs. Transport X² • Fixed missing pixels on screen • Fixed PC Sync crashing • Fixed aborting a measurement • Fixed usage of 24h time format instead of 12h
2.2	Dec 2018	<p>New features</p> <ul style="list-style-type: none"> • More efficient search functionality including filters • Functionality to restore backups • Define oil types in setup menu



		Notable bug fixes <ul style="list-style-type: none"> Pressing “Home” button during operation will now always trigger user confirmation Removal of irrelevant items on the printout and broken printouts fix Display of missing elements during “New Measurement” procedure Time zone display and Set Date/Set Time fix
2.1.6.106	July 2020	Notable bug fixes <ul style="list-style-type: none"> Fixed pressure differential in gas lines (DE6806)
2.1.6.104	Sep 2018	Notable bug fixes <ul style="list-style-type: none"> Fixed false-positive error code #24 showing on some devices (DE6786)
2.1.6.101	July 2018	Notable bug fixes <ul style="list-style-type: none"> Fixed false-positive errors showing on some devices before and after the measurement
2.1.6.10	May 2018	Baseline software release.

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