

Equipment Technical Bulletin

ILS Max: Transport Time Setup Screen Bug



BACKGROUND

ILS Max firmware has been updated to version 2.01. An added feature of this version is the display of the average transport pump flow rate on the **Transport Time Setup** screen. This feature was added to aid in troubleshooting and to allow the user to reset this value if it has been corrupted by air leaks or other problems.

The average transport pump flow rate should report in liters per minute or gallons per minute, in accordance with the display unit setting.

PROBLEM

A bug has been identified in versions 2.00 and 2.01 firmware, such that the screen always reports this value in liters per minute, even when “U.S GAL & OZ” units has been selected on the **Liquid Unit Selection** screen. The term “Gal/m” also displays on the screen, even though the *value displayed* is in liters.

SCOPE

ILS Max’s, spare main PCB’s and upgrade kits with firmware version 2.00 or 2.01 are affected.

SYMPTOM

When U.S. display units are selected, the *reported* value will be in liters per minute, although *displayed* as gallons per minute. This may be confusing, as the displayed amount will appear to be much more than the actual flow rate. See Figure 1.

This problem will not be seen if metric display units are used.

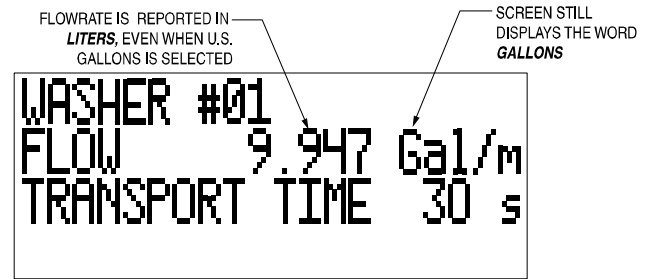


Figure 1. Transport time appears to be expressed as gallons, but the actual value is in liters.

SOLUTION

To get the correct gallons-per-minute value, divide the incorrect displayed value by 3.79 to convert it from liters to gallons.

In the Figure 1 example, the flow rate is displayed as 9.947 Gal/m, but the 9.947 value is actually in liters. By dividing this value by 3.79, we get the desired value in gallons:

$$9.947/3.79 = 2.62$$

The ILS Max firmware is updated periodically. During the next scheduled update of this firmware this bug will be eliminated.



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