QA-VTM Plug-In Read Me

ansur QA-VTM Plug-In is a product facilitating automatic test and inspection with the use of the QA-VTM Ventilator Tester for testing ventilators.

Introduction

This read me file contains last minute information for Fluke Biomedical's ansur QA-VTM version 2.2.1.

History

This chapter describes the changes made between each new released version.

Release 2.2.1

- Recompiled with the new version of a component compatible to windows Vista.

Release 2.2.0

- Altered names and graphics for Fluke version.
- Added support for ansur V2.
- Fixed a problem where high pressure test values where reported incorrectly.

Release 2.1.3

- A predefined trend can no longer be stopped and deleted.
- It is now possible to change unit on Temperature. Default Temperature unit is changed to Celsius.
- Fixed a problem where the pressure reported on leakage test and low pressure test was 10 times bigger than the actual measured pressure.
- Updated report so that the first trend sample is printed on the right place.
- Fixed a problem where the first trend sample was incorrect.
- Scale boundaries employed in waveforms are now centered around the graph.
- Tidal Volume is now displayed with three decimals.

Release 2.1.2

- A problem causing ansur to hang when running a QA-VTM test using ansurMLC V2.1.8 on Windows 98 was fixed.
- Test guide now resets correctly if a test instrument cannot be found.

Release 2.1.1

- Ventilator test now supports 32-bit results streamed by new and improved FW/HW. Backwards compatibility has been maintained. The plug-in auto-detects firmware revision and handles the results accordingly.
- Implemented support for new ventilator test parameter 'Atmospheric Pressure' This parameter is only applicable when running a firmware higher than or equal to 3.0. Should the user attempt to run a test including 'Atmospheric Pressure' on old firmware, the plug-in will advise him/her of this and simply ignore that parameter.
- Bugfix: Attempting to run a ventilator test on Windows 2000 as a user with low access privileges would cause the plug-in to bail out. This was due a DLL not being properly registered for restricted users has now been fixed.

Release 2.0.4

- Trends do not start sampling until a positive Breath Rate has been detected, thus solving the problem with erroneous zero-values.
- Support for QA-VTM firmware 3.0 and above where pressure resolution is 1/1000 and not 1/100. Plug-in auto-detects firmware version and acts accordingly.

Release 2.0.3

- Reverted performance enhancement from version 2.0.2 where X and Y-scaling settings were not save to XML structure, as this affected printed reports.
- Bugfix: Incorrect legend text for printed reports.
- Added 'Volume calculation' frame to plug-in preferences 'Advanced' tab.

Release 2.0.2

- Bugfix: Test Guide was not updated if entire test had been viewed in full-screen mode. Consequently, no values were displayed in Test Guide.
- Bugfix: Trend values were displayed incorrectly (by a factor of 100)
- The 'Reset calculations' option is no longer available when a test is not performing.
- 'Detect level' legend setting was not properly maintained for flow waveforms and snapshots.
- Trends and snapshots are now deleted from results structure whenever user flags a test as 'Not applicable'
- Whenever user skips a test, the entire results structure for that test is deleted
- User is now prompted for confirmation before skipping or flagging a test as 'Not applicable', so that results are not accidentally deleted.
- Bugfix: Snapshots and waveforms X-scaling were corrupted when viewing a trend parameter.
- Oxygen level limits are now correctly detected and reported.
- Performance enhancement: X and Y-scaling settings are no longer stored in XML stuctures if autoscaling is enabled.
- Bugfix: Snapshot values from long test runs were not loaded correctly due to an overflow error.
- Legend text is now correctly placed on printed graphs.
- Improved algorithm for calculating X-ticks on printed graphs

Release 2.0.1

- Re-written routines for calculating volume. Volume is now reset to zero whenever both flow and pressure are under a given threshold.
- Controls for setting this threshold can be found in the plug-in preferences 'Advanced' tab
- Auto-scaling of waveforms can now be limited to a given scaling boundary, so that noise is not zoomed in upon. The user may set these boundaries by manipulating the registry entries: ScaleFlowMin_mlSec, ScaleFlowSpan_mlSec, ScalePressureMin_cmH2O and ScalePressureSpan_cmH2O. Important note: These settings do not permit decimals. Consequently, values should be scaled by a factor of 100. E.g. 166,67 ml/sec should be entered as '16667' .
- Fixed bug where incorrect data and scaling settings were preserved during truncate.

- Plug-in now uses Noise Level setting actively for the Flow Test; All values between N and -N are treated as zero. Earlier versions relied upon the QA-VTM to do this filtering,
- Various minor fixes.

Language Changes

This chapter describes the changes made to the language file in each new version.
The list includes only versions where the language file was changed.

Release 2.1.1

- New: 20618, 21007 - 21008

Release 2.0.4

- New: 20142, 20147, 20183, 20168, 20171, 20184

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