Instruction Manual

Alfa Laval Instrument Programmer

TE91K042EN1
ESE03333EN
Date of issue: August, 2016
First published: August, 2016

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1. EC Declaration of Conformity

EC Declaration of Conformity

The designated company

Alfa Laval Kolding A/S
Company name

Albuen 31, 6000 Kolding, Denmark
Address

+45 79 32 22 00
Phone no.

hereby declare that

Instrument	Alfa Laval Instrument Programmer
Designation	Type

From serial numbers from 2016-00001 to 2030-99999

is in conformity with the provisions of the Directive 2004/108/EU and with the national implementing legalization and EC regulation 1935/2004 relating to materials and articles intended to come into contact with food

and furthermore declares that the following (parts/clauses of) applicable directives have been used:

- Directive 2006/95/EC on low voltage
- EMC: EN61000-6-3:2007
- EN61000-6-2:2005

The person authorised to compile the technical file is the signer of this document.

Global Product Quality Manager Pumps, Valves, Fittings and Tank Equipment	Lars Kruse Andersen	
Title	Name	Signature

May 30, 2016	Kolding
Date	Place

2. Safety

Unsafe practices and other important information are emphasized in this manual.
Warnings are emphasized by means of special signs. All warnings in the manual are summarized on this page.
Pay special attention to the instructions below so that severe personal injury or damage to the transmitter is avoided.

2.1 Important information

Always read the manual before using the conductivity transmitter

WARNING
Indicates that special procedures must be followed to avoid severe personal injury.

CAUTION
Indicates that special procedures must be followed to avoid damage to the conductivity transmitter

NOTE
Indicates important information to simplify or clarify procedures

2.2 Warning signs

General warning:

Dangeous electrical voltage:

Caustic agents:

3. General Description

Unsafe practices and other important information are emphasized in this manual.
Warnings are emphasized by means of special signs. All warnings in the manual are summarized on this page.
Pay special attention to the instructions below so that severe personal injury or damage to the transmitter is avoided.

3.1 Alfa Laval Instrument Programmer Unit

Item number for the Alfa Laval Instrument Programmer Unit: 9614448501

The Alfa Laval Instrument Programmer can be operated from a PC, supplied from the USB port, or remote operation, supplied from a battery. It is with user-friendly software with help menus.

Configures the following products:
TE67G - Temperautre transmitter
TE67K - Conductivity transmitter
TE67L - Pressure transmitter
TE67O - Level switch

3.2 Generel description

The Alfa Laval Instrument Programmer is the dedicated configuring tool for all the above listed Alfa Laval products. The Alfa Laval Instrument Programmer unit is operated and supplied from a standard PC with a USB connector. A unique feature is that the Alfa Laval Instrument Programmer can be disconnected from the PC and brought to the remote site for monitoring and re-configuration of the Alfa Laval instrument. In this case the Alfa Laval Instrument Programmer is powered by the internal battery. The integrated LC-display enables the user to monitor the actual configuration of a product for control purposes.

The software is based on the FDT-container technology where each product has a DTM based software driver. The stand alone all-in-one software package named Alfa Laval Instrument Programmer with integrated help menus is easily installed and operated. In case a customer prefers to use an FDT-container software all the DTM´s can be run by this software.

The selected configuration can be stored under a file name determined by the user. A print function is available for hard copy records.The »measure« function in the Alfa Laval Instrument Programmer makes it easy for the user to monitor events in a test circuit.

3. Technical Data

3.3 Working principle of the temperature transmitter

Supply voltage

Internal battery	NiMH 2,4 V, 450 mAh
External	Supply and battery charge from USB

Data transfer

Data input	USB
Firmware	Updated from home page

EMC data

Immunity	EN 61326
Emission	EN 61326

Environmental conditions

Operating temperature	0...50°C
Humidity	< 90% RH, non-condensing
Protection class	IP 42
Approval	Confi guration of Ex-products **outside** zone 0,1 or 2
Conformity	To EU-directives, RoHS, VEEE

3.4 The Alfa Laval Instrument Programmer

Alfa Laval Instrument Programmer
Cable with 2 alligator clips
Cable from Alfa Laval Instrument Programmer to M12 Plug for TE67O
USB cable
CD with the Alfa Laval Instrument Programmer software

4. Installation

4.1 Installation of Alfa Laval Instrument Programmer

WARNING!

Do not connect the Alfa Laval Instrument Programmer to your PC before the installation of the Alfa Laval Instrument Programmer software.

1) Quit all programs and insert the CD.
   a) The CD will start an automatic installation.
   b) If your autorun function has been disabled the installation should be done manually.
      Select the “Alfa Laval Instrument Programmer_Package” folder on the CD and run the .exe-file.
2) During installation you will be prompted for
   a) User rights for the software
   b) Folder name for the Alfa Laval Instrument Programmer installation.

3) After the installation the Alfa Laval Instrument Programmer will start automatically

4.2 Changing of battery of the Alfa Laval Instrument Programmer

1) Connect the Alfa Laval Instrument Programmer to your PC to ensure that the battery will be recharged.
2) The battery will be discharged if the Alfa Laval Instrument Programmer is not connected to a PC for some time.
3) It takes up to 16 hours to fully charge the Alfa Laval Instrument Programmer .
4) When receiving the Alfa Laval Instrument Programmer it may be necessary to charge it before use.

Note:
The Alfa Laval Instrument Programmer will not function if discharged even though the Alfa Laval Instrument Programmeris connected to the USB port on the PC. The device still uses power from the battery and not directly from the PC.

4.3 Alfa Laval Instrument Programmer menu

Press ▲ and ▼ simultaneously to enter the Alfa Laval Instrument Programmer menu.

The Alfa Laval Instrument Programmer menu contains e.g. Teach-In and Autozero functionalities.

Press ▲ or ▼ to browse the menu

Press ◀ to access current menu point
Press ◀ to return to previous menu

Reset

Press ◀ and ▶ simultaneously for 5 seconds to reset the Alfa Laval Instrument Programmer

4. Installation

4.4 Downloading Alfa Laval Instrument Programmerand Firmware

Downloading of the Alfa Laval Instrument Programmer PC software and various instrument firmware can be done from the Alfa Laval home page.

ALFA LAVAL INSTRUMENT PROGRAMMER:

www.alfalaval.com/products/fluid-handling/instrumentation/instrumenaction-accessories

Click on the desired download in the “Language” box.

Download and save the file on your PC in a selected directory e.g. on your desktop.

If it is a ZIP-file, please unzip the downloaded file to a selected directory, e.g. on your desktop.

4.5 Installation and update of the Alfa Laval Instrument Programmersoftware

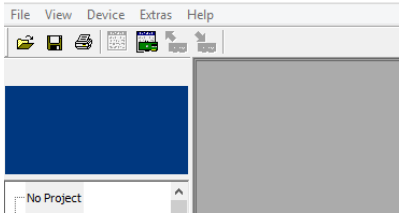
Open the file with the downloaded, unzipped file, click on the “Alfa Laval Instrument Programmer software package B… exe” and follow the instructions and the Alfa Laval Instrument Programmer will automatically be installed on your PC.

The Basic Alfa Laval Instrument Programmer Package includes drivers for the Alfa Laval Instrument Programmer and all the instruments, that are programmable with this software. A new version will automatically overwrite older versions and you are able to work with the new version as soon as it is installed.

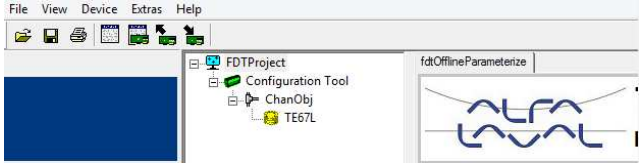
4.6 Installation and update of the Alfa Laval Instrument Programmersoftware

Connect the instrument to the Alfa Laval Instrument Programmer and the Alfa Laval Instrument Programmer to your PC.
Choose the relevant instrument from the list to the left.

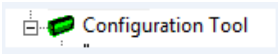
Press “View” and click on “Project window”

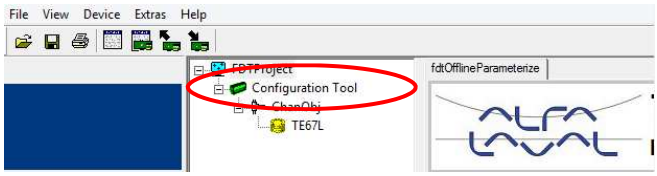


A project tree appears

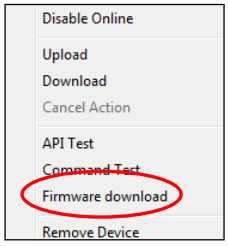


4.7 Updating the Alfa Laval Instrument Programmer firmware

Right click on 

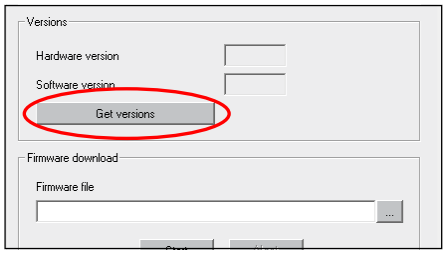


and this selection box will appear



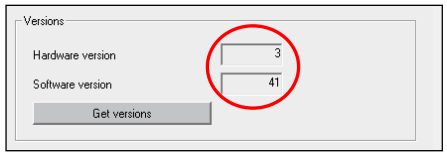
Click on Firmware download

and this window will appear



Press Get versions

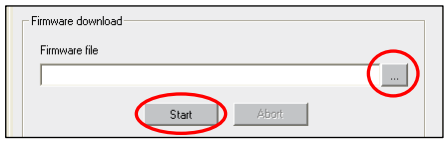
and the hardware and software version number will be shown.
If your software version has a lower version number than the newest version of the Alfa Laval Instrument Programmer firmware, please update the Alfa Laval Instrument Programmer .



Note: In case the software is corrupt and shows an error message please close and reopen the Alfa Laval Instrument Programmer
Skip the step Get versions *and go directly to Firmware download.*

Firmware download

Press ... and find and select the unzipped file (.txt file) in your directory and then press Start



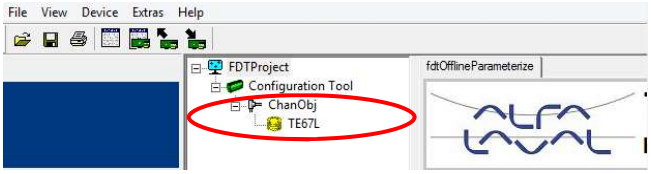
Update will now take place.
It may take several minutes before the update is completed.

After finishing the update of the Alfa Laval Instrument Programmer please press ◀ ▶ simultaneously for 5 seconds on the Alfa Laval Instrument Programmer to complete the installation.

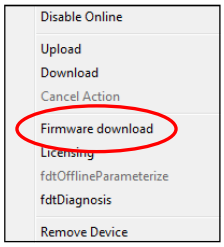
4. Installation

4.8 Updating of instrument firmware

Right click on the connected instrument e.g. TE67L

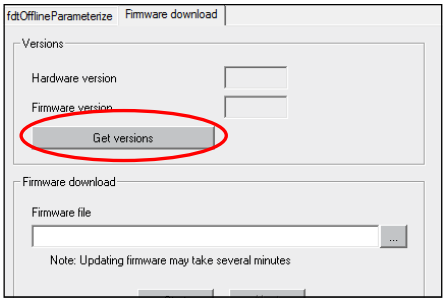


and this selection box will appear



Click on Firmware download

and this window will appear

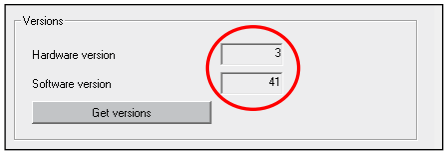


Press Get versions

and the version number will be displayed.

If your software version has a lower version number than the newest version of the instrument firmware, please update the instrument.

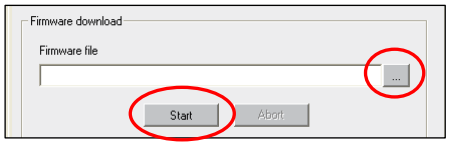
Note: In case the software is corrupt and shows an error message please close and reopen the Alfa Laval Instrument Program



Skip the step Get versions and go directly to Firmware download.

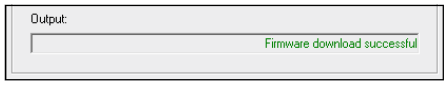
Firmware download

Press ... and find and select the unzipped file (.txt file) in your directory and then press Start



Update will now take place.

It may take several minutes before the update is completed.



When the update of the instrument firmware has been finished successfully the text to the right will be displayed.

5.1 Service / Repair

The product contains no direct replaceable parts, except for the batteries. In case of malfunction the product must be sent to Alfa Laval for repair.

Upon every return of a product, no matter if for modifications or repair, it is necessary to contact your local Alfa Laval office to guarantee a quick execution of your request.

You will receive instructions regarding the return procedure from your local Alfa Laval office. Be sure to follow the instructions closely.

5.2 Warranty

The warranty conditions are subject to the legal warranty period of 12 months from the date of delivery. In case of improper use, modifications of or damages to the device, we do not accept warranty claims.
Damaged devices will also not be accepted. Furthermore, defects due to normal wear are not subject to warranty services.

5.3 How to contact Alfa Laval Tank Equipment A/S

For further information please feel free to contact:

Alfa Laval Tank Equipment
Alfa Laval Kolding A/S
31, Albuen - DK 6000 Kolding - Denmark
Registration number: 30938011
Tel switchboard: +45 79 32 22 00 - Fax switchboard: +45 79 32 25 80
www.toftejorg.com , www.alfalaval.dk - info.dk@alfalaval.com

Contact details for all countries are continually updated on our websites.

How to contact Alfa Laval
Contact details for all countries are
continually updated on our website.
Please visit www.alfalaval.com to access the information direct.

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