Calibration Database User manual

Contents

DISCLAIMER 3
1.0 Software administration 4
Upgrading from an earlier version of Kalibro to 2.6 and above 4
Creating an admin account on first run 4
Populating the basic data fields 5
Device status 5
Define calibration result 5
Define owner 5
2.0 Using the database 6
Opening the Database 6
Changing the status (the current location) of a gauge:- 6
Selecting a gauge 7
3.0 Adding gauges and measurement instruments to the Data base 8
Adding a new device 8
Completing the additional fields 10
4.0 Calibration records 11
Adding a calibration record 11
Attaching report documents 11
Viewing a saved report 12
5.0 Reporting 13
Producing a Calibration control report 13
Producing individual gauge record reports 13
Producing history reports 14

DISCLAIMER

QEP HAS MADE CONSIDERABLE EFFORTS TO ENSURE THE CONTENT OF THIS DOCUMENT IS CORRECT AT THE DATE OF PUBLICATION BUT MAKES NO WARRANTIES OR REPRESENTATIONS REGARDING THE CONTENT. QEP EXCLUDES LIABILITY, HOWSOEVER ARISING, FOR ANY INACCURACIES IN THIS DOCUMENT.

This document may be copied or reproduced in whole or in part, or transferred to any other media or language, by any means, with the advanced permission of QEP, however QEP would expect some form of recognition.

The information contained within this document is for training purposes only and should not be used for any other purpose. QEP reserve the right to make changes to these notes and to the product described herein without obligation to notify any person of such changes.

1.0 Software administration

Upgrading from an earlier version of Kalibro to 2.6 and above

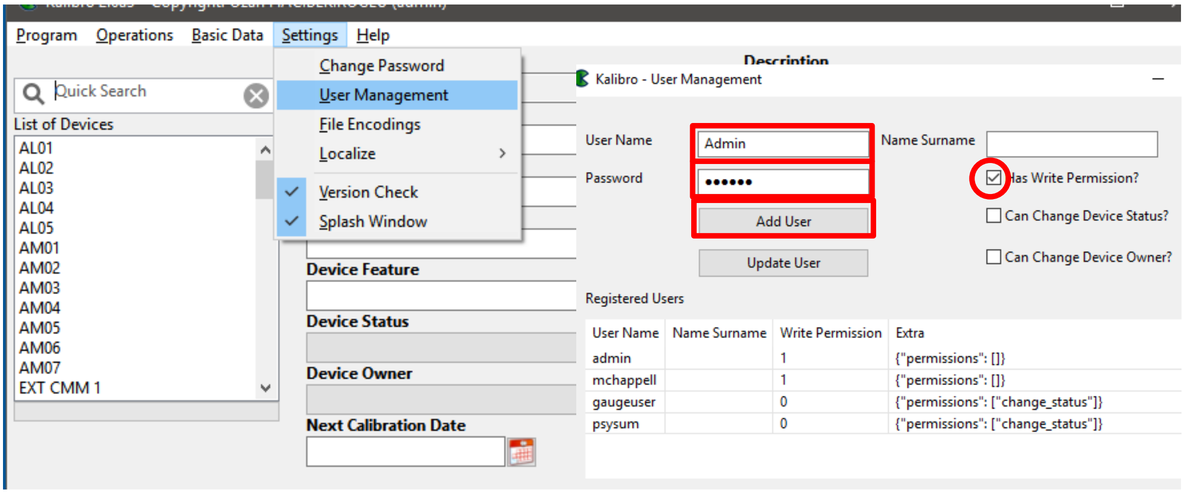
Versions of kalibro 2.6 and above do not require the “Kalibro.sqlite.bak” file to be copied into the installed software location. Only copy the “Kalibro.sqlite” and set your operating system to perform regular back-ups.

The following section covers the initial set-up of the software and ongoing additions. When first running the software it is essential to create and Admin account and Password for administration purposes. The administrator will also need to populate fields that use “pick” boxes and this section will help guide you through the initial software settings.

Creating an admin account on first run

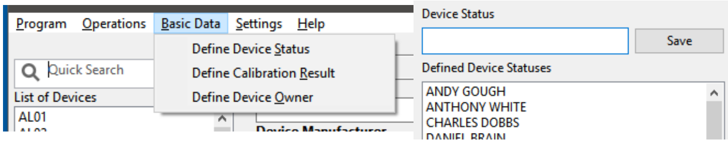
Select settings, user management then type “admin” in the user name and a then type a memorable password in the password box. Ensure you “check” the write box and when finished select the “add User” box. You will need to create a user name and password for each user of the software.

Note:- By selecting the “Write Permission” box then the user will have access to all functionality within the software. By leaving the “Write Permission” blank and choosing the “Can change Device Status” then the user will be able to change the gauge status (book out of stores and return to stores etc.), run a some reports but not modify the database

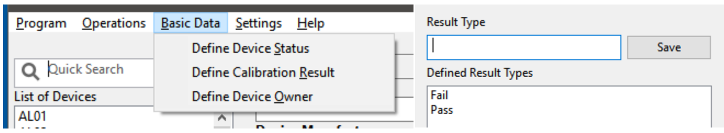


Populating the basic data fields

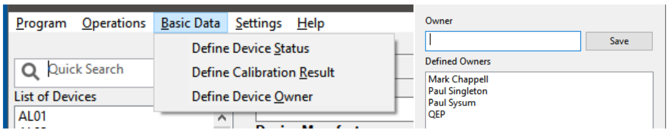
Device status - Before the drop down selection box can be used it must be populated. Type the required information into the blue box and click on the save button for each entry



Define calibration result - Before the drop down selection box can be used it must be populated. Type the required information into the blue box and click on the save button for each entry



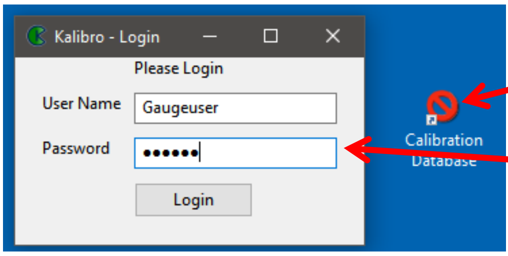
Define owner - Before the drop down selection box can be used it must be populated. Type the required information into the blue box and click on the save button for each entry



2.0 Using the database

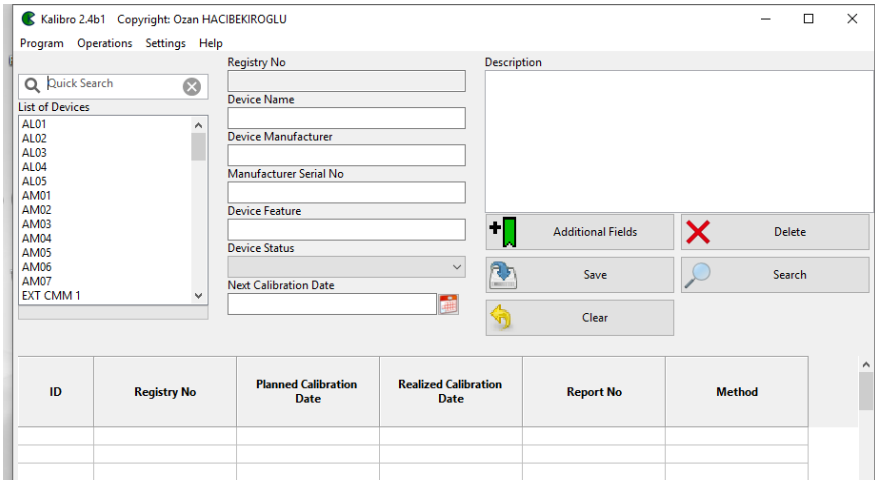
Opening the Database

To open, click on the icon and the main screen will open as below:-



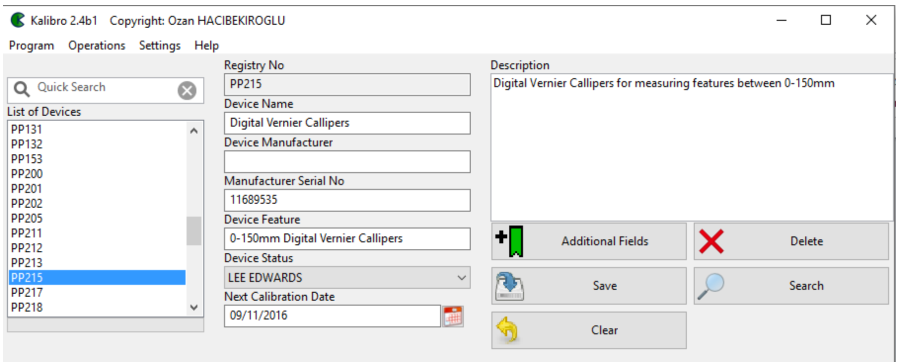
Double-click the calibration database shortcut, the login box will appear

Type in your username and password

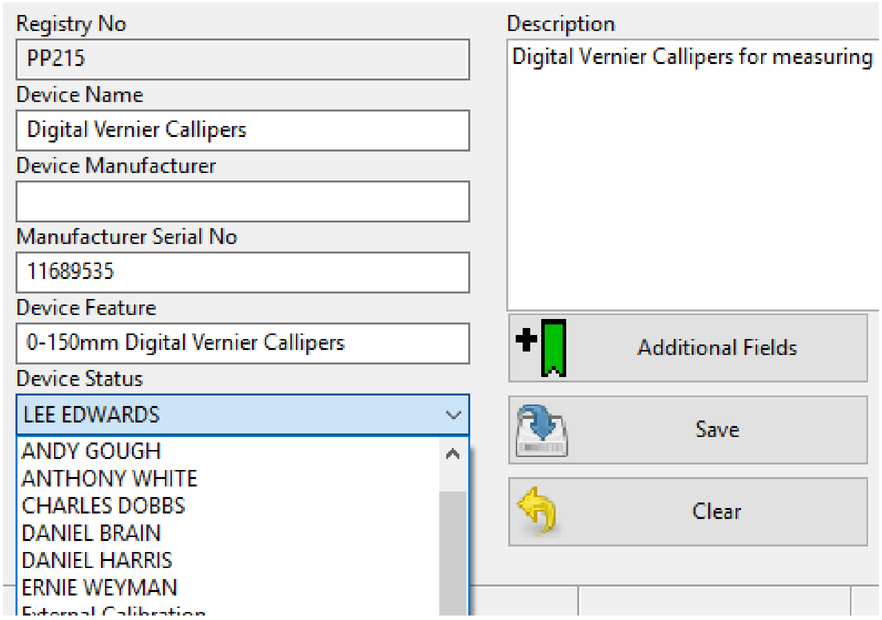


Changing the status (the current location) of a gauge:-

To change the Status of Gauge, i.e. when withdrawing from the gauge stores or booking back into the gauge stores, first find the gauge you are looking for eg.PP215 in the “List of Devices” double click the gauge number so that the details box is populated as below:-



Select the “Device Status” drop down menu and the person’s name that is booking out the gauge to use. Once selected click save and the Gauge will now be recorded as with that person or department / stores.



Selecting a gauge

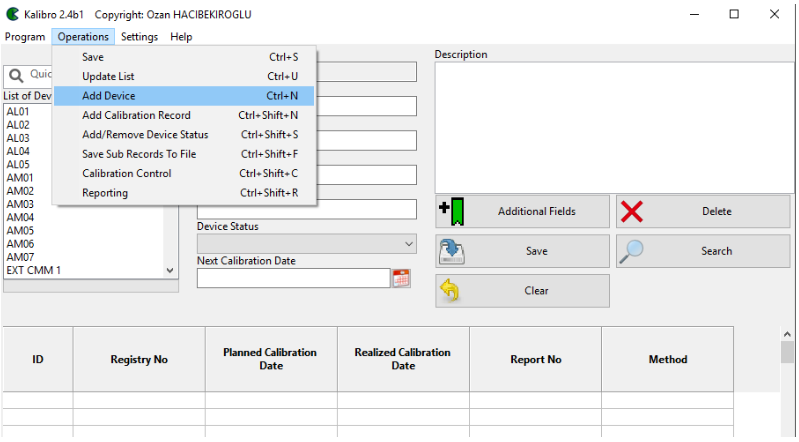
If you require finding a particular gauge and its location within the business this can be achieved via the reporting system and detailed in section 4

3.0 Adding gauges and measurement instruments to the Data base

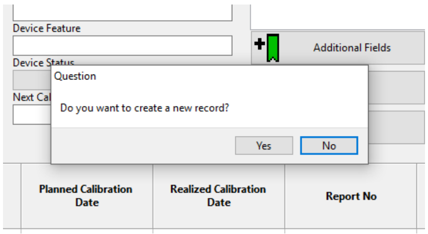
Open the database software as described in section 1

Adding a new device

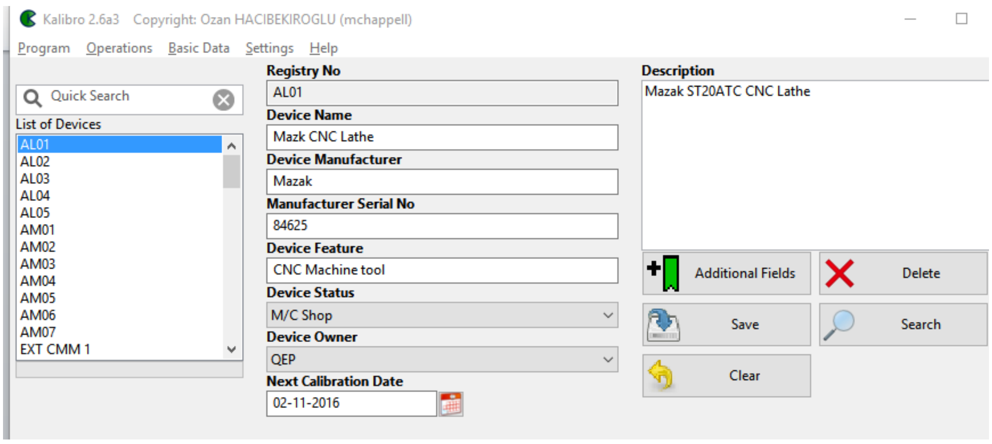
From the top tool bar select “Operations” and then “Add Device” (as per picture below).



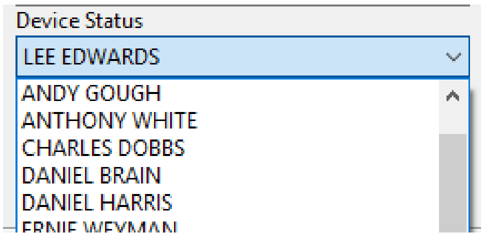
You will be asked if you wish to create a new record, click “yes”



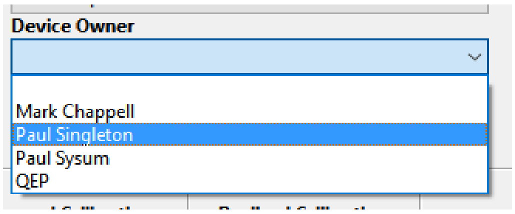
Complete the boxes as shown in the picture below, using the same format as the example:-



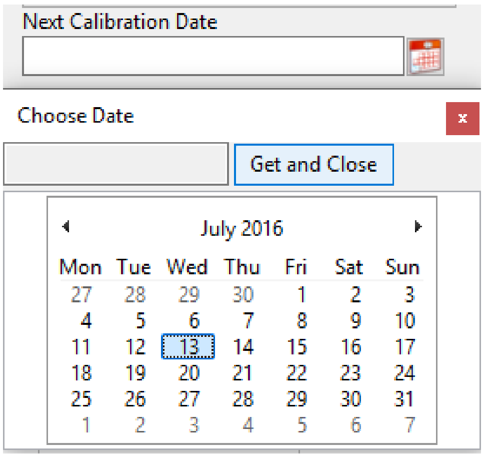
Select the appropriate location of the gauge from the drop down menu in the “Device Status” field



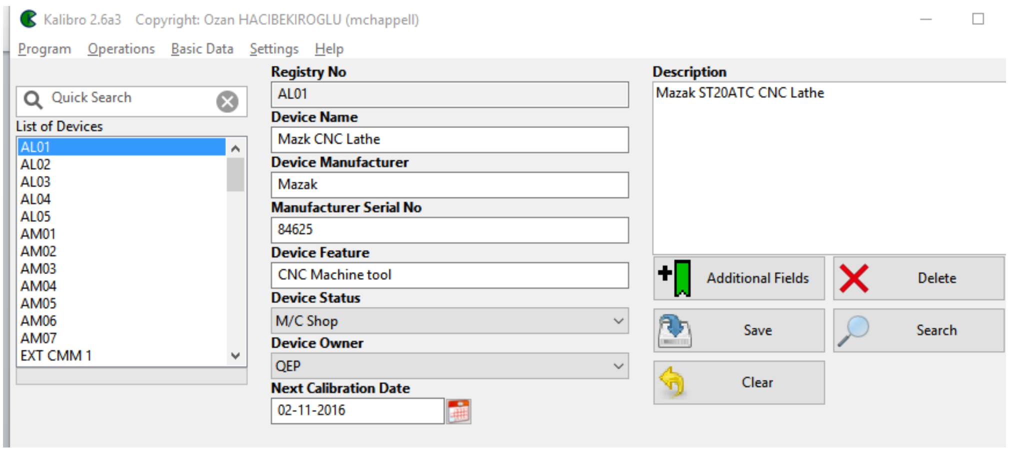
Select the appropriate owner of the Gauge



From the “Next Calibration Date” select the date that the gauge is due for re-calibration then click on the “Get and Close button”



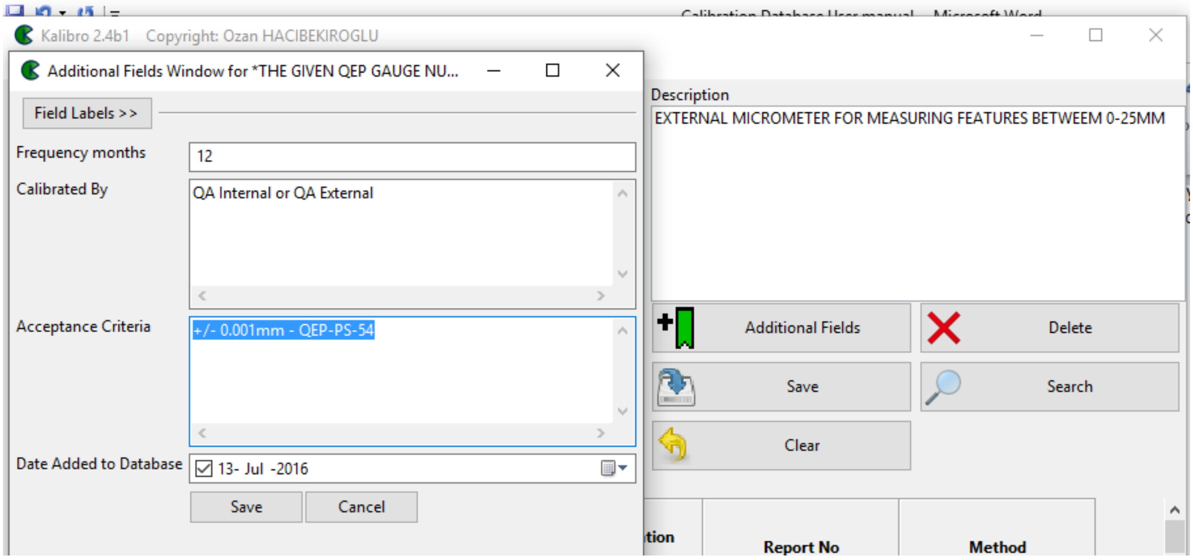
Once all fields have been selected click on the “Save” button



Completing the additional fields

It is imperative that the ”Additional Fields” section is completed as this controls the frequency of calibration, the tolerance and process specification to follow along with the department responsible. “Click” on the “Additional Fields” box

Complete the data entry for the boxes as below example and click “Save”



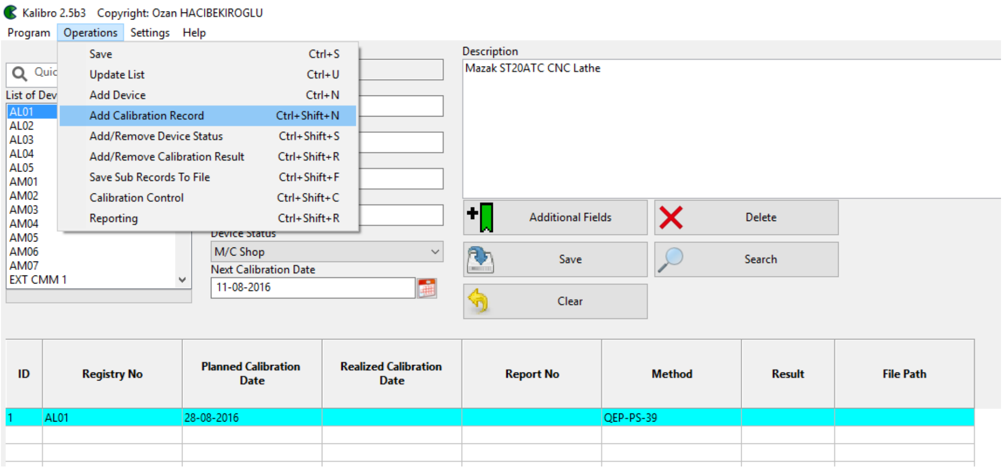
After saving the additional fields press the “cancel” button and this will remove the “input box”

4.0 Calibration records

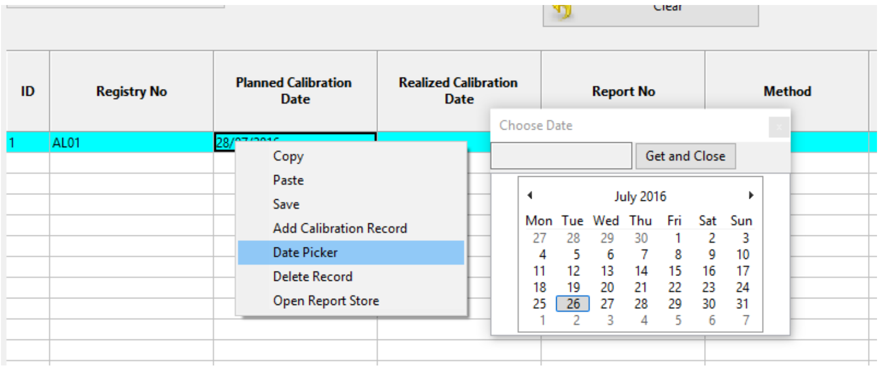
After conducting calibration of gauges it is necessary to create a record within the database indicating the date due, the date completed, the method used, the result and attaching the report.

Adding a calibration record

From the options tab select "Add a Calibration Record", this will generate a new area to input data as highlighted below in Orange.

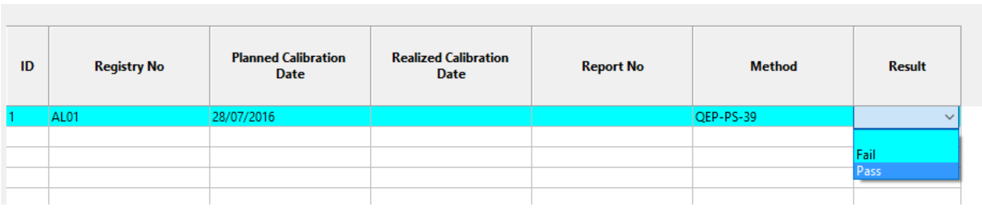


To input the date data, right click on the boxes that require a date and select "date picker" the calendar box will appear, select the correct date and click on the "get and close" box



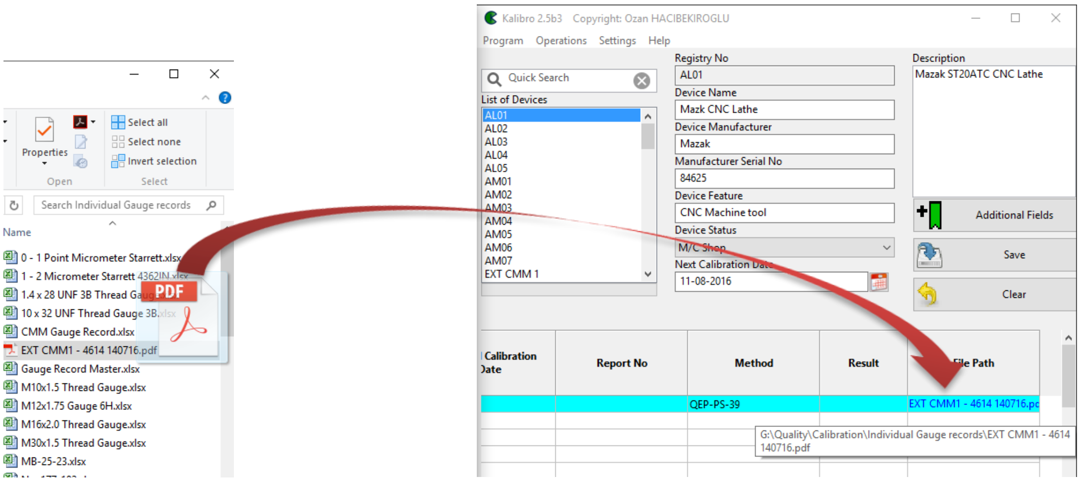
Double click the "method box" and free type the process specification followed.

Select the drop down tab in the results column and select "pass or fail" comment. When completed click the save button



Attaching report documents

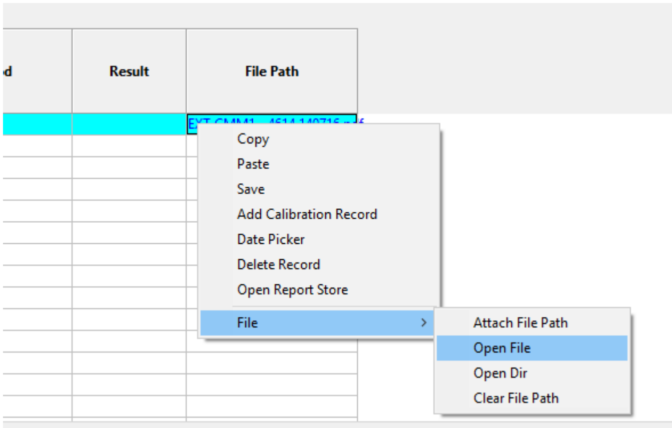
To attach a document link, drag and drop the file into the “filepath” box



Free type the file number into the Report box and click on the “SAVE” button

Viewing a saved report

To view a saved report right click on the “file path” box select the option “file >” and select “open file” the saved file will open automatically in its default program.



Certificate of Calibration

Issued by Aberlink Innovative Metrology

Aberlink Innovative Metrology LLP Eastcombe Glos GL6 7DY Tel. 01453 884461 www.aberlink.com

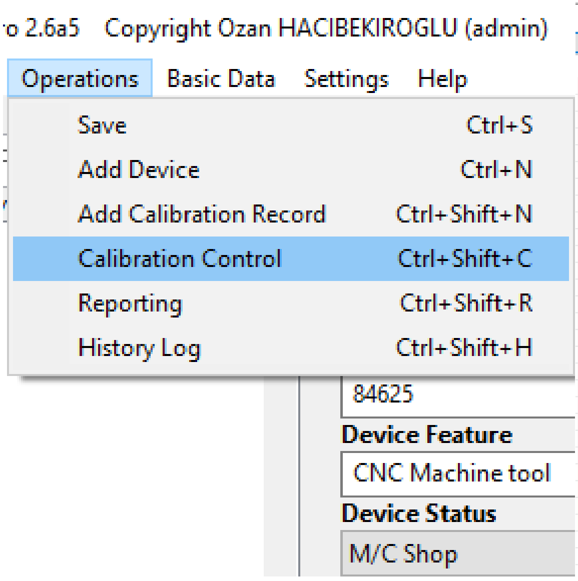
Cert Number	4614140716	Date of Calibration	14/07/2016
Customer	QEP	Machine Serial No.	4614
Customer Address	GL14 2PH	Engineer	Joe McGough
Basis of calibration	ASME B89.4.1B-2001		
Scope	Linear errors checked and compensated Volumetric errors checked and compensated Gauges used traceable to UKAS laboratories		
Inspection Device	Co-ordinate Measuring Machine		
Manufactured by	Aberlink	Year of Manufacture	2010
Model	Axiom Too	Type	CNC
Stroke	x 600 y 600	Probe Head	RTP20

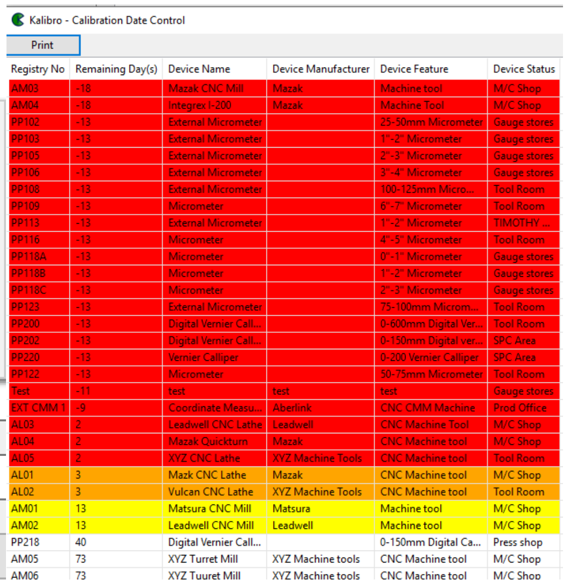
5.0 Reporting

There are currently 2 types of reports that can be produced from within the software, “Calibration Control” (due date of gauge calibration) and “Reporting” (complete individual gauge records).

Producing a Calibration control report

From the operations tab, select the calibration control option, a report will “pop up” and can then be printed as paper or as a “PDF file” and circulated.

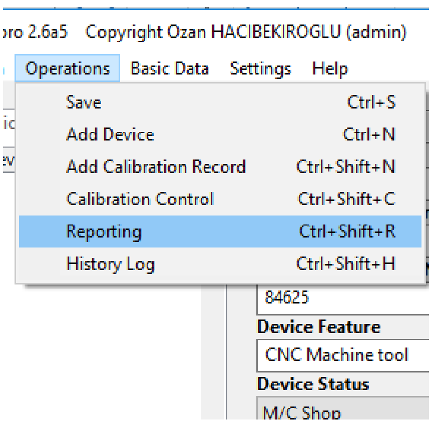


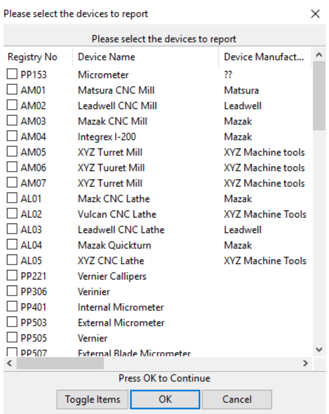


Registry No	Remaining Day(s)	Device Name	Device Manufacturer	Device Feature	Device Status
AM03	-18	Mazak CNC Mill	Mazak	Machine tool	M/C Shop
AM04	-18	Integrex I-200	Mazak	Machine Tool	M/C Shop
PP102	-13	External Micrometer		25-50mm Micrometer	Gauge stores
PP103	-13	External Micrometer		1"-2" Micrometer	Gauge stores
PP105	-13	External Micrometer		2"-3" Micrometer	Gauge stores
PP106	-13	External Micrometer		3"-4" Micrometer	Gauge stores
PP108	-13	External Micrometer		100-125mm Micro...	Tool Room
PP109	-13	Micrometer		6"-7" Micrometer	Tool Room
PP113	-13	External Micrometer		1"-2" Micrometer	TIMOTHY ...
PP116	-13	Micrometer		4"-5" Micrometer	Tool Room
PP118A	-13	Micrometer		0"-1" Micrometer	Gauge stores
PP118B	-13	Micrometer		1"-2" Micrometer	Gauge stores
PP118C	-13	Micrometer		2"-3" Micrometer	Gauge stores
PP123	-13	External Micrometer		75-100mm Microm...	Tool Room
PP200	-13	Digital Vernier Call...		0-600mm Digital Ver...	Tool Room
PP202	-13	Digital Vernier Call...		0-150mm Digital ver...	SPC Area
PP220	-13	Vernier Calliper		0-200 Vernier Calliper	SPC Area
PP122	-13	Micrometer		50-75mm Micrometer	Tool Room
Test	-11	test	test	test	Gauge stores
EXT CMM 1	-9	Coordinate Measu...	Aberlink	CNC CMM Machine	Prod Office
AL03	2	Leadwell CNC Lathe	Leadwell	CNC Machine Tool	M/C Shop
AL04	2	Mazak Quickturn	Mazak	CNC Machine tool	M/C Shop
AL05	2	XYZ CNC Lathe	XYZ Machine Tools	CNC Machine tool	Tool Room
AL01	3	Mazk CNC Lathe	Mazak	CNC Machine tool	M/C Shop
AL02	3	Vulcan CNC Lathe	XYZ Machine Tools	CNC Machine tool	Tool Room
AM01	13	Matsura CNC Mill	Matsura	Machine tool	M/C Shop
AM02	13	Leadwell CNC Mill	Leadwell	Machine tool	M/C Shop
PP218	40	Digital Vernier Call...		0-150mm Digital Ca...	Press shop
AM05	73	XYZ Turret Mill	XYZ Machine tools	CNC Machine tool	M/C Shop
AM06	73	XYZ Tuuret Mill	XYZ Machine tools	CNC Machine tool	M/C Shop

Producing individual gauge record reports

From the “operations tab”, select the “reporting” option. You will now be able to print an individual gauge report by selecting the appropriate gauge number.

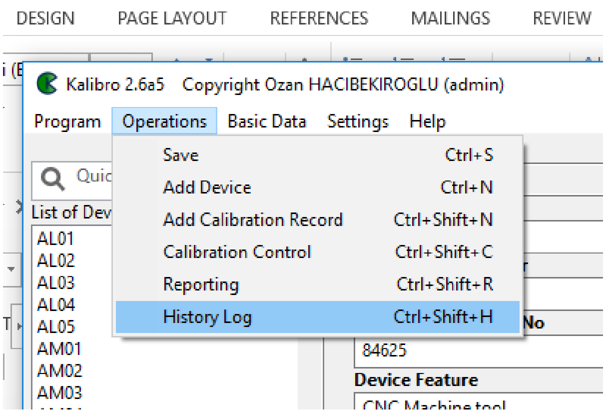




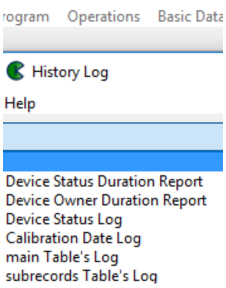
Registry No	Device Name	Device Manufact...
PP153	Micrometer	??
AM01	Matsura CNC Mill	Matsura
AM02	Leadwell CNC Mill	Leadwell
AM03	Mazak CNC Mill	Mazak
AM04	Integrex I-200	Mazak
AM05	XYZ Turret Mill	XYZ Machine tools
AM06	XYZ Tuuret Mill	XYZ Machine tools
AM07	XYZ Turret Mill	XYZ Machine tools
AL01	Mazk CNC Lathe	Mazak
AL02	Vulcan CNC Lathe	XYZ Machine Tools
AL03	Leadwell CNC Lathe	Leadwell
AL04	Mazak Quickturn	Mazak
AL05	XYZ CNC Lathe	XYZ Machine Tools
PP221	Vernier Callipers	
PP306	Verinier	
PP401	Internal Micrometer	
PP503	External Micrometer	
PP505	Vernier	
PP507	External Blade Micrometer	

Producing history reports

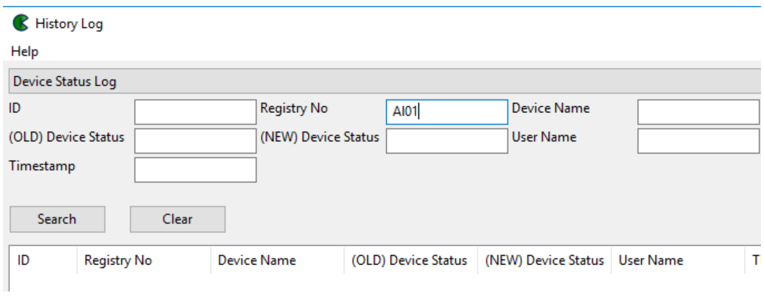
From the “operations tab”, select the “reporting” option. You will now be able to print an individual gauge report by selecting the appropriate gauge number.



From the “pop down menu” select report type



Type the gauge id into the the “Registry No box” and click on the search button



Report type