

## **1. Calibration Management Software**

**Caliso software is used throughout the world by scientists and engineers alike. Please take a moment to browse through these pages.**

### **Calibration Toolbox ADO**

**This is calibration management software for the most demanding applications, used and trusted by scientists and engineers all over the world for over 10 years. Caliso Calibration Toolbox has become the standard by which all calibration management software is judged.**

**Calibration Toolbox ADO, sets the bar even higher than before. In our opinion, nothing else comes close.**

**There is full compliance with the requirements of both 21 CFR Part 11 and FDA validation guidelines. Calibration Toolbox ADO also totally complies with the requirements of ISO 17025, ISO 9001, GMP and GLP.**

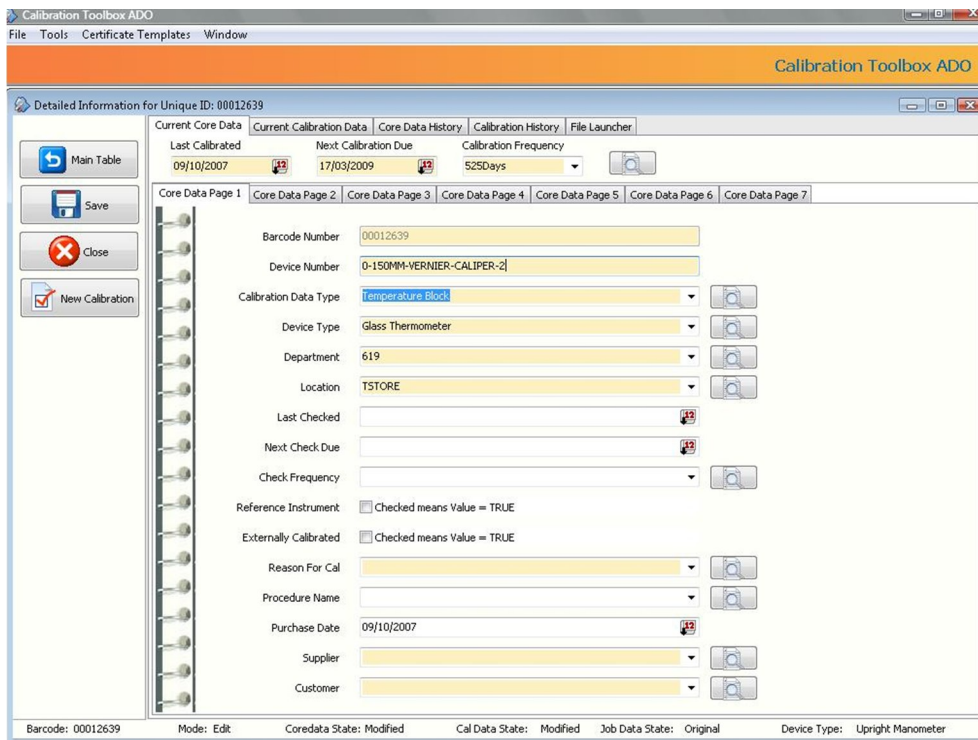
**You will also find a comprehensive set of tools, to help you with practically all of the jobs required in modern calibration facilities:**

- **Uses the very latest ADO technology to provide either JET (Access) or MS SQL Server connectivity**
- **Powerful database search, locate and reporting tools**
- **Track calibration jobs from recall to return to user**
- **E-mail calibration reminders**
- **WYSIWYG calibration certificate design**
- **Measurement Uncertainty calculator**
- **Regression analysis**
- **Yearplanner and diary**
- **Possible to translate all to Swedish**
- **Fits your need both in the calibration lab as well as in the process industry and much more**

**This ground-breaking calibration control database software was designed from the outset to enable laboratories and organisations to perform paperless calibration management and quality assurance tasks in full compliance with the strict internationally accepted guidelines and specifications of:**

- **21 CFR Part 11**

- ISO 9001 : 2000
- ISO 13485 : 2003
- ISO / IEC 17025
- TS 16949
- QS 9000
- FDA software validation guidelines
- Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results
- Good Laboratory Practise GLP and Good Manufacturing Practise GMP



The screenshot shows the 'Calibration Toolbox ADO' software interface. The main window is titled 'Detailed Information for Unique ID: 00012639'. It features a navigation pane on the left with buttons for 'Main Table', 'Save', 'Close', and 'New Calibration'. The main area contains a form with the following fields:

Field	Value
Barcode Number	00012639
Device Number	0-150MM-VERNIER-CALIPER-2
Calibration Data Type	Temperature Block
Device Type	Glass Thermometer
Department	619
Location	TSTORE
Last Checked	
Next Check Due	
Check Frequency	
Reference Instrument	<input type="checkbox"/> Checked means Value = TRUE
Externally Calibrated	<input type="checkbox"/> Checked means Value = TRUE
Reason For Cal	
Procedure Name	
Purchase Date	09/10/2007
Supplier	
Customer	

At the bottom of the window, the status bar displays: Barcode: 00012639, Mode: Edit, Coredata State: Modified, Cal Data State: Modified, Job Data State: Original, Device Type: Upright Manometer.

Detailed Information for Unique ID: 00014829

Current Core Data | Current Calibration Data | Core Data History | Calibration History | File Launcher

Select Calibration History Record: 25/02/2009 08:16:54

Temperature: 25/02/2009 08:16:54

Calibration Measurements		Equipment Used		Other Data							
Description	Nominal	Upper Limit	Lower Limit	As Found	Error	Result	As Left	Error	Result		
0	0	0.2	-0.2	0.3	0.3	●	0.1	0.1	●		
20	20	20.2	19.8	19.7	-0.3	●	20.1	0.1	●		
40	40	40.2	39.8	40.4	0.4	●	39.9	-0.1	●		
60	60	60.2	59.8	59.8	-0.2	●	60.1	0.1	●		
80	80	80.2	79.8	80.1	0.1	●	80.1	0.1	●		
100	100	100.2	99.8	99.7	-0.3	●	99.9	-0.1	●		

Date Added: 25/02/2009 08:16:54 | Cal Date: 25/02/2009 | Number of Channels: 1 | Added By: Guest

Barcode: 00014829 | Mode: Edit | Coredata State: Modified | Cal Data State: Saved | Job Data State: Original | Device Type: Glass Thermometer

File Tools Certificate Templates Window

Uncertainty Budget

Create Uncertainty Budget | Uncertainty Calculations

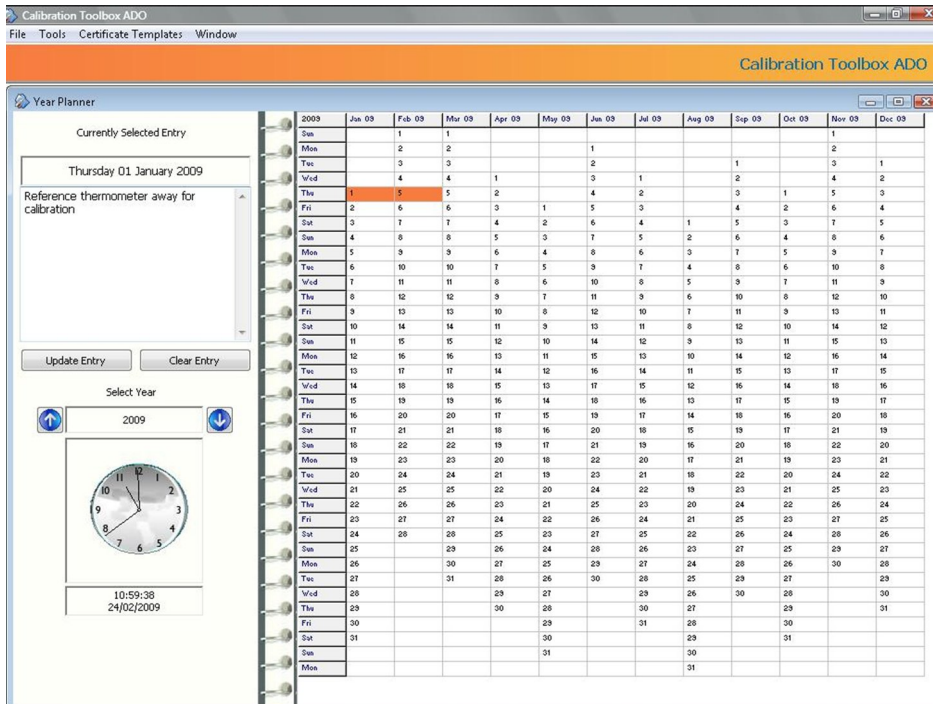
Step 2  
Add your estimates/calculations of the values for each component (Double-click component to edit)

Component	Contribution	Value ±	Distribution	Divisor	Std Uncertainty ±
Temperature Calibration Block	From certificate (k=2)	0.5	A - (k = 2)	2	0.2500
Reference Thermometer	Drift	0.01	A - (k = 2)	2	0.0050
Reference Thermometer	Calibration Error	0.05	A - (k = 2)	2	0.0250
Reference Thermometer	Uncertainty from Certificate	0.15	A - (k = 2)	2	0.0750
Reference Resistor	Temperature Stability	0.005	A - (k = 2)	2	0.0025
Reference Resistor		0.005	A - (k = 2)		

No Divisor  
 A - (k = 1)  
 A - (k = 2)  
 B - Normal 50%  
 B - Normal 67% (1SD)  
 B - Normal 95% (2SD)  
 B - Normal 99.7% (3SD)  
 B - Rectangular  
 B - Triangular  
 B - Confidence Int 95%  
 B - Confidence Int 99%

OK Cancel

Note: All sensitivity coefficients are assumed to be 1 Units: °C Calculate Combined Uncertainty (k = 1): 0.256246951201375



**Kontakta Caltech för fri demo eller mer info.**

**Hälsningar**

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