## **The Tintometer Limited**

## **RCMSi** Calibration Procedure





RCMSi is the process in which a number of tightly controlled calibration liquids are measured in a 50 mm cell via the Calibration function of a PFXi. The data is communicated via the internet to a secure server and compared to Master Data. If the data passes within tolerance, then a Certificate of Calibration is e-mailed to the user. This allows The Tintometer Ltd to ensure a PFXi instrument is operating correctly and fully calibrated using ISO 17025 certified standards. Thus users can be 100% confident that all PFXi readings are reliable. Certificates of Calibration are provided post process.



•Please Register your instrument and e-mail address at <u>www.tintometer.com</u> before proceeding with Calibration.

•From the PFXi menu, select "Remote Calibration".

•A communication channel will open with the Calibration Server at The Tintometer Ltd. The Calibration Server will request the Calibration Pack code.

•Enter the Calibration Pack code. The Calibration Server will confirm that the pack has not been used before and that it is within its shelf life.

•The Calibration Server automatically returns the IDs for all the solutions within the Calibration Pack to the PFX*i*.

•Follow the onscreen prompts; initially measure the clean 50 mm cell and then filling the cell with the specified calibration solution and measuring.

•This process is repeated for all solutions. Once all the solutions have been measured, the data is communicated back to the Calibration Server. The data is compared to the secure ISO 17025 calibration data for the solutions.

•If the data is within tolerance, then a Certificate of Calibration is immediately e-mailed to you.

•If a small error is detected, the Calibration Server will calculate and send a correction factor back to the instrument. automatically.

•You will be asked if you would like to apply the correction factor. If the correction factor is applied, the measurement of the solutions should be repeated. If the data passes within tolerance, then a Certificate of Calibration is e-mailed you.

•At any point in the calibration process, if a major error is found, you will be informed and the process halted. Immediately contact your local Service Centre or The Tintometer Ltd directly.



Calibration Packs (The Calibration Packs should always be used within 1 month of receipt.) There are three types of Calibration Packs.

Starter Pack : 1 X Full Pack, 1 X 50 mm Cell, 1 X Instruction CD , 1 X Calibration Chart Full Pack: 1 X De-Ionised Water, 6 X Calibration Liquids, 1 X Instruction Document Conformance Pack: 1 X De-Ionised Water, 3 X Calibration Liquids, 1 X Instruction Document

Calibration Type	Calibration Set Pack Code	Date of Calibration	Status Pass/Fail	Next Calibration Due date
Starter Pack				
-				
				1115
		1.1.1.1.1		
			-	
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