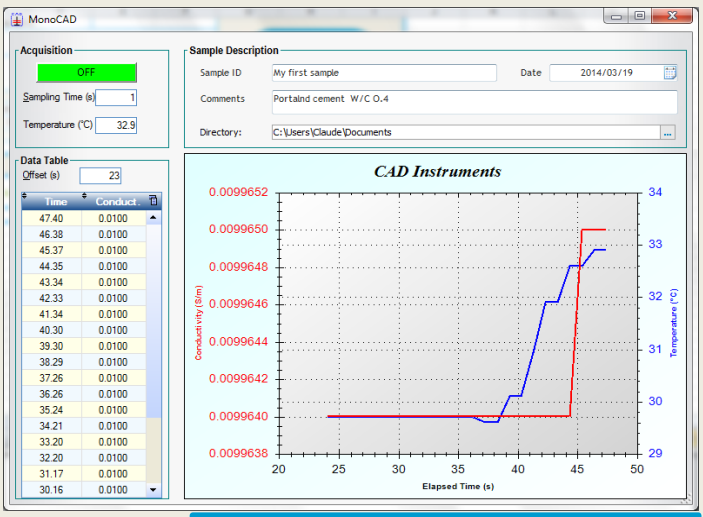
MULTICAD: MULTI-SAMPLE CONTROLLER FOR MONITORING THE ELECTRIC CONDUCTIVITY OF CEMENT SUSPENSIONS, SLURRIES AND PASTES

The **MultiCAD** includes a set of adapted cells corresponding to the study of liquid suspensions, pastes or mortars.
The electrical conductivity is monitored using an external multiplexer and only one conductivity meter. A menu driven software for PC compatible is used to set independently parameters of each cell, plot the signal curves and archive data on format compatible with usual Excel™ spreadsheet.

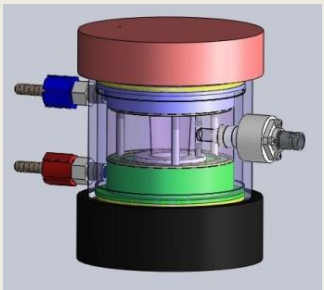
Applications

- Kinetics of cement hydration.
- Study of hardening process of oil well cement slurries.
- Monitoring of structural changes occurring within the paste during hydration.
- Characterization of secondary effects of cement additives.
- Effects of mineral additives on the *electrical conductivity* of hardening *cement paste*.
- Study of fillers reactivity.
- Measurement of connectivity of the moisture inside pores within drying cement paste.
- Monitoring sol-gel reaction.



CEMOT40: cell for liquids and diluted suspensions. Stirring is carried out by a 24V DC motor. Double jacketed vessel for temperature control.

Model shown: MonoCAD



PAP cell model for Pure Pastes.
The conical design of special pasta cells model PAP is particularly convenient for removing the sample after setting. Also exist for mortars samples

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