



Subject: Validation Chamber Mappings – Even a Caveman Can Do It?

March 2, 2007

Dear Validation Professional,

Yes, you may feel like the insulted caveman if you are doing a lot of chamber mappings with thermocouple based systems. For over 25 years, validation professionals have been using the same system and facing the same frustrating problems when using thermocouples. Can you relate to some of these situations?

You are hauling a tangled mass of thermocouples along with bath, probe and datalogger from cave to cave (I mean chamber to chamber).

You spend a lot of time for setup and calibration.

Calibrations or verifications fail and need to be redone.

IRTD probe gets damaged in transport or setup.

Some chambers require a lot of time to stabilize after installing thermocouples.

Installing thermocouples into autoclaves, sterilizers or freeze dryers is time intensive.

Feedthroughs leak and vacuum tests fail.

Power failed or somebody messed with the equipment overnight and the test has to be redone.

You spend time fabricating your own thermocouples.

Datalogger is water damaged from condensate steam running through thermocouples.

People get angry because you are disrupting the area operations for long periods of time.

You are using LNG dewars, dry ice/alcohol slurries or messy oil baths for low temperature calibrations.

Validation software does not support all the trends, calculations, electronic signature or report formats needed. Therefore, you spend considerable time compiling data in third party software to complete the reports. Reports must then be reviewed by passing hard copies from person to person.

If you have encountered some or all of the above, then you probably experienced days that you felt like a caveman trying to start a fire by rubbing two sticks together. Maybe it is time for a change. Lives International offers the most modern and complete approach to thermal validation


Celsius Technologies
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applications. Learn how the Lives **XpertLog wireless validation system** can cut your validation time and costs in half. Attached is a brief summary of ExpertLog specifications.

NEW: Ultra Low Temperature Loggers for –80 C to 100 C Range.
NEW: Ultra Low Temperature Dry Bath for calibrating –90 C to 125 C Range

Please contact me for more information or we can setup a meeting for a demonstration.

Sincerely,

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