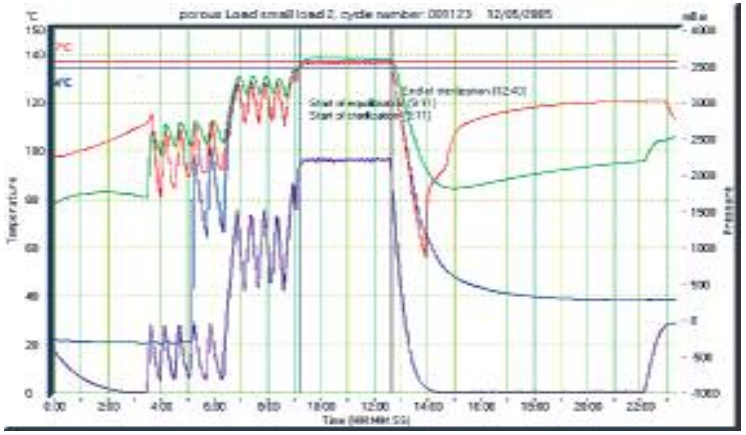
# EaziVal SE Software

EaziVal SE makes thermal validation a trouble-free and easily repeatable process from start to finish. EaziVal SE provides traceable validation of hospital sterilizers and washer-disinfectors to HTM01, HTM2010 & HTM2030.



**Eazival SE software provides the following facilities:**

- Site, department, and machine data base
- Machine data base, calibration and test results stored in tamper-proof encrypted files
- Data logger input configuration
- Thermocouple and pressure sensor three point calibration
- Thermal test configuration
- Data logging with trend displays, data archive, trend display printout with associated tabular data
- Report generation providing quarterly & yearly reports etc
- E-mail of reports as pdf files
- Export of logged data to Excel as csv files
- Operator access to EaziVal SE controlled by operator passwords with electronic signature of test reports and an operator action audit trail

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CE

# Thermal Validation to HTM01, HTM2010 & HTM2030

## Series 825 Thermal Validation Interface

*The solutions to meet all your requirements*

# HTM01, HTM2010 & HTM2030

Health Technical Memoranda 01, 2010 & 2030 provide the NHS and Private Healthcare sectors in the United Kingdom with guidance on selection, validation and maintenance of sterilizers and washer-disinfectors to EN554 and EN285.

### HTM01 & HTM2010

The effectiveness of the sterilization process can not be verified retrospectively by either testing or inspection of the device. It is for this reason that the sterilization process has to be validated prior to use, and its performance routinely monitored.

HTM2010 Part 3 gives detailed advice on periodic testing and validation of the various types of sterilizers used in today's healthcare environment. These range from those used for unwrapped instruments and utensils, requiring readings from three temperature and one pressure sensors, through porous load sterilizers requiring 12 temperature and one pressure reading, to fluid sterilizers.

Photograph courtesy of Lancer

Photograph courtesy of the Hamo Group

### HTM2030

As with sterilizers, there is no simple method to verify the effectiveness of the disinfecting process. Once again the process of cleaning and disinfecting has to be validated prior to use, and its performance periodically tested.

Validation and verification of washer-disinfectors is covered in detail by HTM2030. The tests involved range from the use of a single temperature sensor for checking the water supply temperature to a minimum of eight temperature sensors for the chamber wall temperature test.

# Thermal Validation Interface

In order to assist the hospital estates department and equipment manufacturers, Anville Instruments have developed the Series 825 Thermal Validation Interface suitable for periodic testing and validation of sterilizers and washer-disinfectors.

Series 825 TVI with 16 type T thermocouple inputs and two 4-20mA inputs.

EaziVal SE will support 2 units simultaneously giving 32 type T thermocouple inputs and four 4-20mA inputs.

The Anville Series 825 TVI is designed for use with EaziVal SE software. Anville's thermal validation systems can be used wherever it is necessary to maintain a formal record to prove that the correct temperatures and pressures have been achieved during a critical process. Anville understand that equipment testing and validation are undertaken by busy engineering staff and have concentrated on making Eazival SE easy to setup and use.


The Anville Series 825 TVI differs from the majority of data loggers by the design of the thermocouple input connection, associated thermocouple cold junction compensation and in the use of analogue input parallel processing; enabling the unit to have a scan rate of better than once per second for all inputs. The Series 825 TVI uses individual high speed amplification and analogue to digital conversion on each input channel with conversion to °C; enabling the system to have a traceable calibration certificate. The Series 825 TVI has internal power for the 4-20mA inputs and no separate power supply is required for a pressure transducer.
The Anville Series 825 measurement range for type T thermocouples is -200°C to +300°C with a resolution of 0.01°C. Over a measurement range from -50°C to +300°C the overall system accuracy is +/- 0.25°C. This accuracy is maintained over an ambient operating temperature range from 0°C to +50°C and includes all errors due to thermocouple cold junction compensation, DC amplification, A/D conversion and thermocouple linearisation.