



xEtal_Temperature software

Available languages: French, English, Italian, Spanish

Automatic adjustment and calibration in temperature for TMI-ORION temperature loggers type II and beyond (NanoVACQ, PicoVACQ and et NanoVACQ Plat).

xEtal_Temperature software helps periodically adjusting and calibrating TMI-ORION type II (and more) temperature loggers.

This calibration can be done in the user's metrology laboratory, on site, for better productivity.

| V.C.V. d'ajustage(°C) | V.I.(°C) | Résidus(°C) | Incertitude(°C) |
|-------------------------|------------|-------------|-----------------|
| R.V.for calibration(°C) | L.I.V.(°C) | Error(°C) | Uncertainty(°C) |
| -0.01 | -0.01 | 0.00 | 0.10 |
| 29.98 | 29.99 | 0.01 | 0.10 |
| 59.95 | 59.94 | -0.01 | 0.10 |
| 89.92 | 89.90 | -0.02 | 0.10 |
| 109.89 | 109.89 | 0.00 | 0.10 |
| 119.89 | 119.91 | 0.02 | 0.10 |
| 129.87 | 129.87 | 0.00 | 0.10 |
| 139.85 | 139.84 | -0.01 | 0.10 |

Adjustment consists in establishing a mathematic function between the raw values of a logger and the value given by the measured physical parameter.

Calibration consists in indicating the variation between the true value of a comparison medium and the value given by the logger when immersed in this environment.

To do so, xEtal_Temperature software drives the thermal bath and the reference probe autonomously so that it generates the temperature stages necessary to an adjustment and calibration in different points.

In order to have list of baths, reference probes in temperature and displays compatible with xEtal_Temperature, please contact TMI-ORION.

This software gives similar information to what can be found on the original calibration certificate provided by TMI-Orion.

System requirements

- Windows® 98-2000-Me-NT-XP,
- Minimum two RS232 serial ports or USB ports with RS232 serial ports adapters.
- Minimum 800 x 600 pixels display (1024 x 768 recommended).

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