

Thermal Survey Report

Temperature Uniformity Survey
Reporting Package



imagine making the
impossible possible

With our range of recorders and software, your data is captured and stored very easily. **Imagine** the ease of automated reporting from secure data and imagine access to this information when and where you need it - add to this, an absolute commitment to technological innovation, constant reinvestment in research and development, and a team who understand your process requirements; we can and do **imagine** making the impossible possible for our customers.

Automated Temperature Uniformity Survey reporting

Part of AMS2750 pyrometry compliance



Temperature Uniformity Survey reports are a mandatory part of AMS2750 pyrometry compliance and the report content and format are well defined in the specification.

With the advent of digital recorders it is possible to take the output from the survey recorder and automate the production of the report. This adds a desirable level of efficiency to the whole process of thermal process equipment accreditation. This new package automates the production of survey reporting by combining the secure (.uhh files) data from a Field Test Instrument with the database management of Eurotherm Review. This directly produces reports which comply with the requirements of AMS2750 without exposing data from tamperproof files.

- Assists compliance to AMS2750
- Suitable for in house or 3rd party pyrometry/survey engineers
- Secure PDF reports
- NO access to raw data during report generation
- Links effortlessly with the Eurotherm Review database
- Multiple furnace data stored within the package for retrieval for repeat surveys
- Pass/Fail based on mathematical assessment of raw data and correction factors
- Windows Xp and Windows 7 compliant
- No Excel or intermediate software packages required

Setup

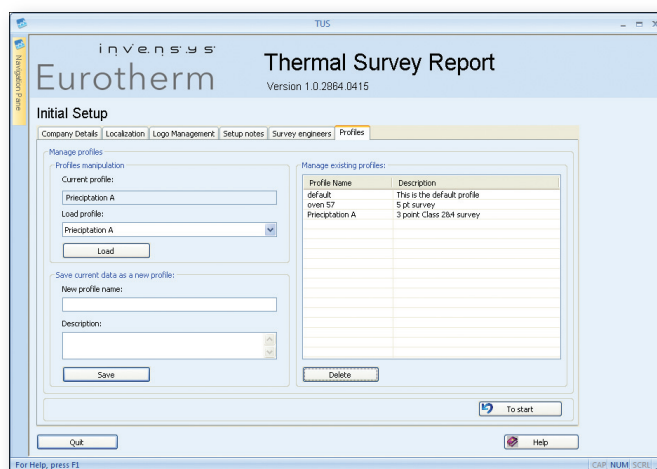
Set mode will allow the pyrometry engineer to determine the scope of the temperature uniformity test for an individual furnace or piece of thermal processing plant.

The user is prompted to complete a number of survey specific pages which relate to the thermal processing equipment under test e.g. set points, survey thermocouple serial numbers and corrections factors, and process Class and Instrument Type

Customise

Initial Setup: the Thermal Survey Report can be customised to include company logos, local date and temperature unit formats, and repeat set up notes can be directly entered in to the report against a mix of fixed and free format fields reducing operator input.

Profiles: data profiles can be stored and retrieved for repeat survey for each piece of process plant.



imagine absolute data records forever

inventys
Eurotherm

Reports

Report generation mode produces an auditable report by associating criteria entered in the setup data with a defined secure .uhh data file from the Field Test Instrument.

Options of report output allow for printing of summary sheets and charts or actual results in tabular format. Included in the report is furnace overshoot and undershoot information along with operator notes associated with actions taken during the test, and a sign off sheet with pass/fail indication. The report can be regenerated at anytime without corrupting the core data by re-specifying the test setup criteria and re-running the report. Printing direct to a printer or filed as PDF straight to a target folder are standard.

The report is suitable for use with up to 48 Survey Sensors and up to 7 Survey setpoints - across a single working volume.

The collage displays several pages from a Eurotherm report, including:

- Page 2:** Summary of survey report number, customer (Hot House Heat Treat), furnace identifier (Precipitation A), and equipment classes table.
- Page 1:** UKAS Accredited Service Provider information, supplier details, and a summary of survey parameters like date, time, and data source.
- Page 12:** A detailed table of readings for Setpoint 1200.0 °C, showing data for various channels (TC1-TC9) across multiple time intervals.
- Page 14:** A trend graph for Setpoint 750.0 °C, showing temperature over time for multiple channels.
- Page 17:** A summary trend graph for the entire survey, showing temperature over time for all channels.
- Declaration Page:** A sign-off sheet with fields for 'Signed' and 'Printed' by Peter Jenkins and Kevin Robinson, dated 18 Apr 2008, indicating the survey passed.

Eurotherm: International sales and service



www.eurotherm.com

Eurotherm is also represented in the following countries:

| | |
|--------------------------|-----------------------|
| Afghanistan | Latvia |
| Albania | Lesotho |
| Algeria | Libya |
| Angola | Lithuania |
| Argentina | Macedonia |
| Armenia | Madagascar |
| Azerbaijan | Malaysia |
| Bahrain | Malta |
| Bangladesh | Micronesia |
| Barbados | Moldova |
| Belarus | Morocco |
| Bermuda | Mozambique |
| Bolivia | Myanmar |
| Bosnia and Herzegovina | Namibia |
| Botswana | Nicaragua |
| Brazil | Niger |
| Brunei Darussalam | Nigeria |
| Bulgaria | Norway |
| Cambodia | Oman |
| Cameroon | Pakistan |
| Canada | Palestinian Territory |
| Central African Republic | Papua New Guinea |
| Chad | Paraguay |
| Chile | Peru |
| Colombia | Philippines |
| Congo | Poland |
| Costa Rica | Qatar |
| Côte d'Ivoire | Romania |
| Croatia | Russia |
| Cyprus | Rwanda |
| Czech Republic | Saudi Arabia |
| Denmark | Senegal |
| Djibouti | Serbia and Montenegro |
| Ecuador | Sierra Leone |
| Egypt | Singapore |
| El Salvador | Slovakia |
| Eritrea | Slovenia |
| Estonia | Somalia |
| Ethiopia | South Africa |
| Fiji | Sri Lanka |
| Finland | Sudan |
| Georgia | Swaziland |
| Ghana | Syria |
| Greece | Tajikistan |
| Greenland | Tanzania |
| Guinea | Thailand |
| Hungary | The Gambia |
| Iceland | Tunisia |
| Indonesia | Turkey |
| Iraq | Turkmenistan |
| Israel | Uganda |
| Jamaica | Ukraine |
| Japan | United Arab Emirates |
| Jordan | Uruguay |
| Kazakhstan | Uzbekistan |
| Kenya | Venezuela |
| Kuwait | Vietnam |
| Kyrgyzstan | Yemen |
| Laos | Zambia |
| | Zimbabwe |

AUSTRALIA Melbourne
Invensys Process Systems
Australia Pty. Ltd.
T (+61 0) 8562 9800
F (+61 0) 8562 9801
E info.eurotherm.au@invensys.com

AUSTRIA Vienna
Eurotherm GmbH
T (+43 1) 7987601
F (+43 1) 7987605
E info.eurotherm.at@invensys.com

BELGIUM & LUXEMBOURG
Moha
Eurotherm S.A./N.V.
T (+32) 85 274080
F (+32) 85 274081
E info.eurotherm.be@invensys.com

BRAZIL Campinas-SP
Eurotherm Ltda.
T (+5519) 3707 5333
F (+5519) 3707 5345
E info.eurotherm.br@invensys.com

CHINA
Eurotherm China
T (+86 21) 61451188
F (+86 21) 61452602
E info.eurotherm.cn@invensys.com

Beijing Office
T (+86 10) 5909 5700
F (+86 10) 5909 5709/10
E info.eurotherm.cn@invensys.com

FRANCE Lyon
Eurotherm Automation SA
T (+33 478) 664500
F (+33 478) 352490
E info.eurotherm.fr@invensys.com

GERMANY Limburg
Eurotherm Deutschland GmbH
T (+49 6431) 2980
F (+49 6431) 298119
E info.eurotherm.de@invensys.com

INDIA Mumbai
Invensys India Pvt. Ltd.
T (+91 22) 67579800
F (+91 22) 67579999
E info.eurotherm.in@invensys.com

IRELAND Dublin
Eurotherm Ireland Limited
T (+353 1) 4691800
F (+353 1) 4691300
E info.eurotherm.ie@invensys.com

ITALY Como
Eurotherm S.r.l
T (+39 031) 975111
F (+39 031) 977512
E info.eurotherm.it@invensys.com

KOREA Seoul
Invensys Operations Management
Korea
T (+82 2) 2090 0900
F (+82 2) 2090 0800
E info.eurotherm.kr@invensys.com

NETHERLANDS Alphen a/d Rijn
Eurotherm B.V.
T (+31 172) 411752
F (+31 172) 417260
E info.eurotherm.nl@invensys.com

POLAND Katowice
Invensys Eurotherm Sp z o.o.
T (+48 32) 7839500
F (+48 32) 7843608/7843609
E info.eurotherm.pl@invensys.com

SPAIN Madrid
Eurotherm España SA
T (+34 91) 6616001
F (+34 91) 6619093
E info.eurotherm.es@invensys.com

SWEDEN Malmö
Eurotherm AB
T (+46 40) 384500
F (+46 40) 384545
E info.eurotherm.se@invensys.com

SWITZERLAND Wollerau
Eurotherm Produkte (Schweiz) AG
T (+41 44) 7871040
F (+41 44) 7871044
E info.eurotherm.ch@invensys.com

UNITED KINGDOM Worthing
Eurotherm Limited
T (+44 1903) 268500
F (+44 1903) 265982
E info.eurotherm.uk@invensys.com

U.S.A. Ashburn VA
Invensys Eurotherm
T (+1 703) 724 7300
F (+1 703) 724 7301
E info.eurotherm.us@invensys.com

ED64

Represented by:

© Copyright Eurotherm Limited 2011

Invensys, Eurotherm, the Eurotherm logo, Chessell, EurothermSuite, Mini8, Eycan, Eyris, EPower, nanodac, Foxboro and Wonderware are trademarks of Invensys plc, its subsidiaries and affiliates. All other brands may be trademarks of their respective owners.

All rights are strictly reserved. No part of this document may be reproduced, modified, or transmitted in any form by any means, nor may it be stored in a retrieval system other than for the purpose to act as an aid in operating the equipment to which the document relates, without the prior written permission of Eurotherm Limited.

Eurotherm Limited pursues a policy of continuous development and product improvement. The specifications in this document may therefore be changed without notice. The information in this document is given in good faith, but is intended for guidance only.

Eurotherm Limited will accept no responsibility for any losses arising from errors in this document.



invensys
Operations Management