

EUROTHERM® FLEXIBLE SOLUTIONS

# 6180 AeroDAQ

AMS2750D DATA MANAGEMENT SOLUTION



*SPECIFIC • SECURE • COMPLIANT*

# SPECIFIC

## Designed to help you to comply with Aerospace industry standards

### Thermocouple Life Monitoring

The 6180 AeroDAQ provides thermocouple life monitoring functionality based on AMS2750D, Sections 3.1.8.4 and 3.1.8.5. Both thermocouple Uses and Days remaining are accounted for to help assure that thermocouples are not used beyond their maximum life as per AMS2750D.

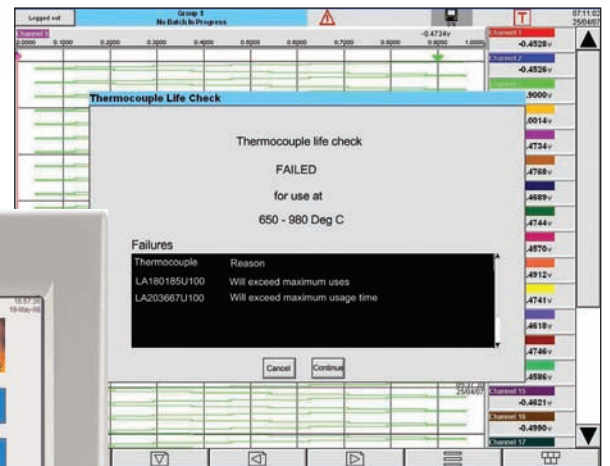
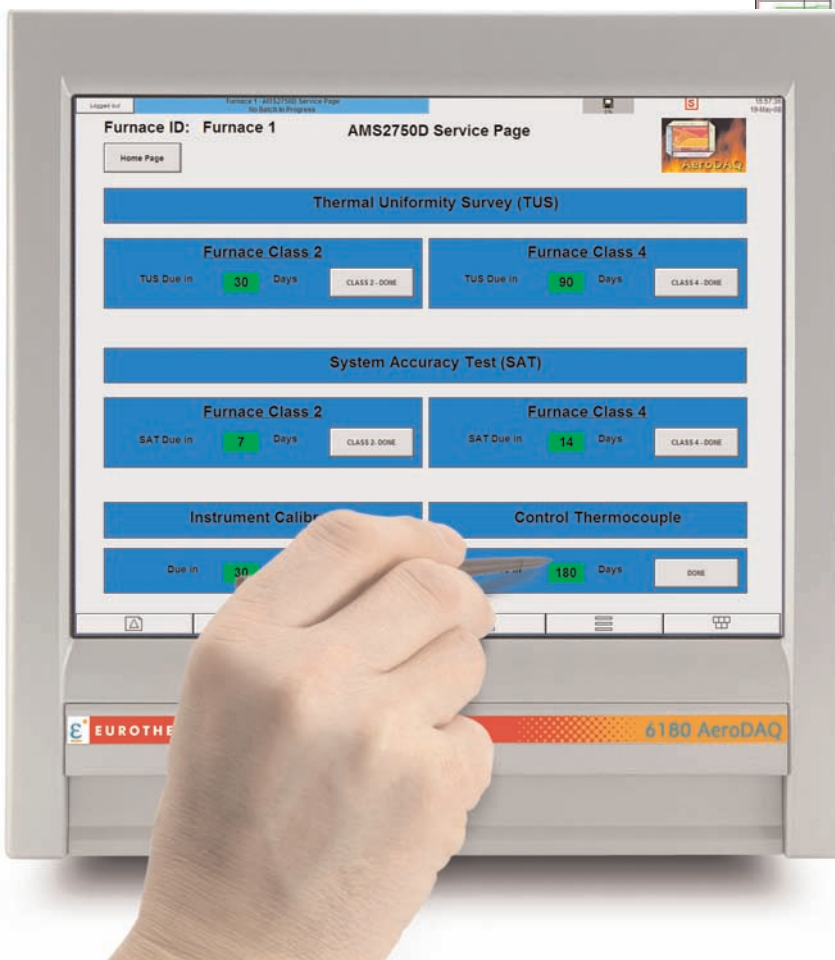
### Automated Scheduling

Using a furnace when it has exceeded the allowable period for calibration, TUS (Thermal Uniformity Survey), or SAT (System Accuracy Test) can result in audit non-compliance, and monetary loss.

The 6180 AeroDAQ provides notification of due dates for

- Calibration
- TUS
- SAT

# AMS2750D





# SECURE

Your data is valuable and we can give you peace of mind...

Secure data archiving is a fundamental requirement in the aerospace industry. Secure data logging, data archiving and user access are all designed to give you peace of mind while still providing 'ease of use'. Process data and Metadata values are continually logged to the large, internal, non-volatile FLASH memory. Records are stored in a secure, binary, check summed format to protect data integrity.

- Integral audit trail
- Specific user access permissions, configurable for each user

# Nadcap



## User Access Controls

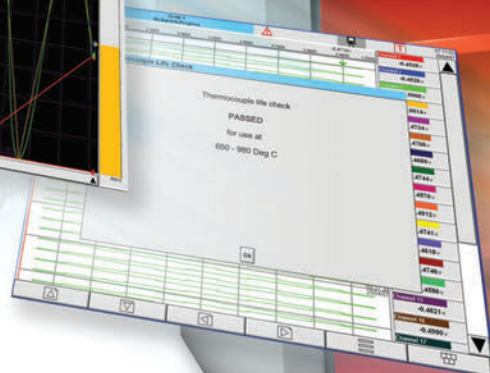
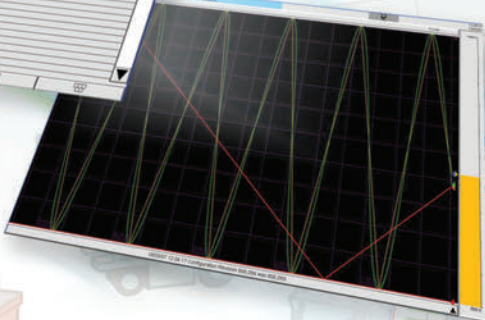
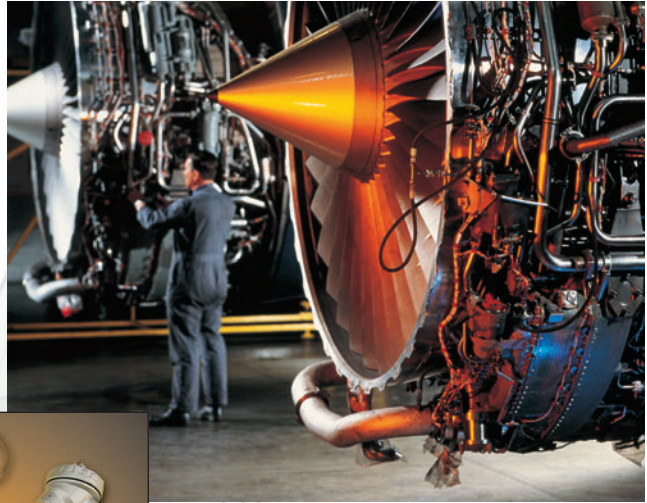
Access to the 6180 AeroDAQ are controlled using an unlimited amount of unique user names and passwords. Each user can be set up with specific access rights - this not only ensures users only get access to the areas they need, it also simplifies operation as dynamic menus show only items the user can access.

# AMS2750D

**Specific**  
**SECURE**  
*Compliant*

## Complete Traceability...

6180 AeroDAQ has an Audit Trail and Recorded Login facility. Every time a user logs on, completes an operation or makes a change to the configuration this is recorded. The Audit Trail is time-stamped and incorporates the operator details along with the changes made. It is stored with the process data and cannot be modified or removed.



# COMPLIANT

## Meeting the requirements of AMS2750D

### AMS2750D, Section 3.1.8.5 (Load Sensors)

For in-situ sensors, the 6180 AeroDAQ can automatically compute maximum allowable sensor usage and elapsed usage with alarms against expired sensors.

**Specific**  
**SECURE**  
*Compliant*



### AMS2750D, Section 3.2.4 (Controlling, Monitoring or Recording Instruments)

The 6180 AeroDAQ meets the requirements of Table 3 and Section 3.2.4 for Controlling, Monitoring or Recording instruments.

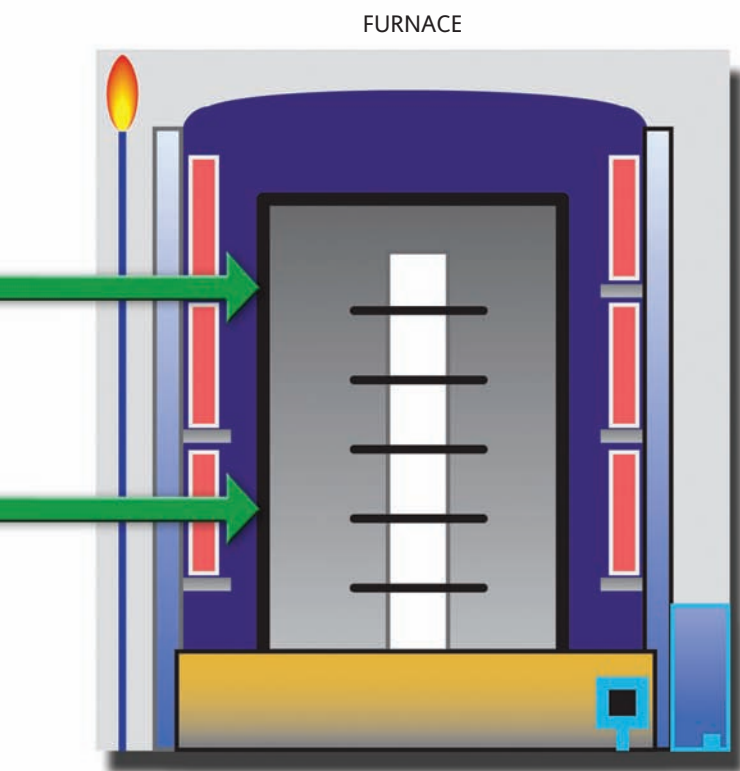
Furnace Classes	Temperature Uniformity Range		6180 AeroDAQ Conformity
	Degrees F	Degrees C	
1	±5°F	±3°C	✓
2	±10°F	±6°C	✓
3	±15°F	±8°C	✓
4	±20°F	±10°C	✓
5	±25°F	±14°C	✓
6	±50°F	±28°C	✓

### AMS2750D, Section 3.2.5 (Instrument Calibration)

Next instrument calibration due date is calculated by the 6180 AeroDAQ, with alarms to alert the user that calibration is due as per AMS2750D, Table 3.

### AMS2750D, Section 3.4.2 (SAT Frequency)

The 6180 AeroDAQ functionality includes calculating the SAT period for a specific furnace class and instrument type as defined in Tables 6 and 7 of AMS2750D, and will alert the user to SAT status.



### AMS2750D, Section 3.5.7 (TUS Frequency)

As with the SAT frequency, the 6180 AeroDAQ will calculate required TUS date as per Tables 8 and 9 of AMS2750D, and provide alerts as to TUS status.

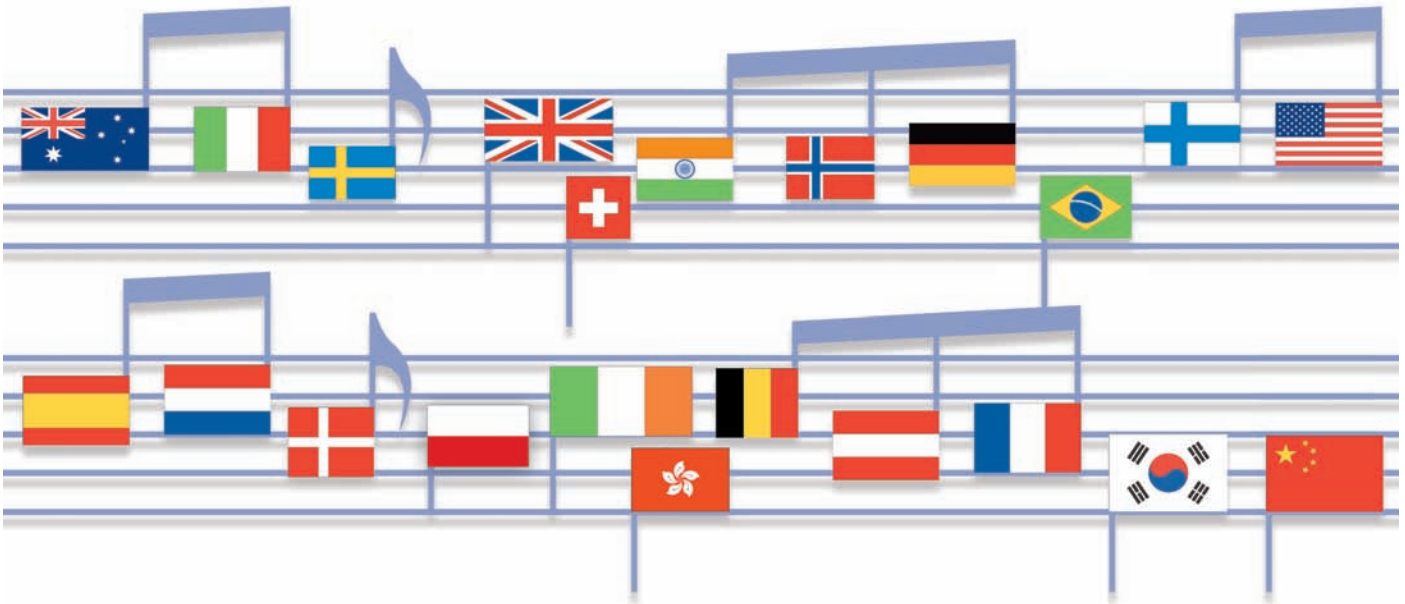
### AMS2750D, Table 2 (Thermocouple Types)

The 6180 AeroDAQ is capable of inputs from all types of thermocouples as listed in Table 2 of AMS2750D.

	Calibration Accuracy	6180 AeroDAQ Conformity
Controlling, Monitoring, or Recording Instruments	$\pm 2^{\circ}\text{F}$ ( $\pm 1.1^{\circ}\text{C}$ )	✓

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**AUSTRIA** Vienna  
Eurotherm GmbH  
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E [info.at@eurotherm.com](mailto:info.at@eurotherm.com)

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**CHINA**  
Eurotherm China  
T (+86 21) 61451188  
F (+86 21) 61452602  
E [info.cn@eurotherm.com](mailto:info.cn@eurotherm.com)

*Beijing Office*  
T (+86 10) 63108914  
F (+86 10) 63107291  
E [info.cn@eurotherm.com](mailto:info.cn@eurotherm.com)  
*Guangzhou Office*  
T (+86 20) 38106506  
F (+86 20) 38106511  
E [info.cn@eurotherm.com](mailto:info.cn@eurotherm.com)

**DENMARK** Copenhagen  
Eurotherm Danmark AS  
T (+45 70) 234670  
F (+45 70) 234660  
E [info.dk@eurotherm.com](mailto:info.dk@eurotherm.com)

**FINLAND** Abo  
Eurotherm Finland  
T (+358) 22506030  
F (+358) 22503201  
E [info.fi@eurotherm.com](mailto:info.fi@eurotherm.com)

**FRANCE** Lyon  
Eurotherm Automation SA  
T (+33 478) 664500  
F (+33 478) 352490  
E [info.fr@eurotherm.com](mailto:info.fr@eurotherm.com)

**GERMANY** Limburg  
Eurotherm Deutschland GmbH  
T (+49 6431) 2980  
F (+49 6431) 298119  
E [info.de@eurotherm.com](mailto:info.de@eurotherm.com)

**HONG KONG**  
Eurotherm Hongkong  
T (+85 2) 28733826  
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**INDIA** Chennai  
Eurotherm India Limited  
T (+91 44) 24961129  
F (+91 44) 24961831  
E [info.in@eurotherm.com](mailto:info.in@eurotherm.com)

**IRELAND** Dublin  
Eurotherm Ireland Limited  
T (+353 1) 4691800  
F (+353 1) 4691300  
E [info.ie@eurotherm.com](mailto:info.ie@eurotherm.com)

**ITALY** Como  
Eurotherm S.r.l.  
T (+39 031) 975111  
F (+39 031) 977512  
E [info.it@eurotherm.com](mailto:info.it@eurotherm.com)

**KOREA** Seoul  
Eurotherm Korea Limited  
T (+82 31) 2738507  
F (+82 31) 2738508  
E [info.kr@eurotherm.com](mailto:info.kr@eurotherm.com)

**NETHERLANDS** Alphen a/d Rijn  
Eurotherm B.V.  
T (+31 172) 411752  
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**NORWAY** Oslo  
Eurotherm A/S  
T (+47 67) 592170  
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**POLAND** Katowice  
Invensys Eurotherm Sp z o.o.  
T (+48 32) 2185100  
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**SPAIN** Madrid  
Eurotherm España SA  
T (+34 91) 6616001  
F (+34 91) 6619093  
E [info.es@eurotherm.com](mailto:info.es@eurotherm.com)

**SWEDEN** Malmo  
Eurotherm AB  
T (+46 40) 384500  
F (+46 40) 384545  
E [info.se@eurotherm.com](mailto:info.se@eurotherm.com)

**SWITZERLAND** Wollerau  
Eurotherm Produkte (Schweiz) AG  
T (+41 44) 7871040  
F (+41 44) 7871044  
E [info.ch@eurotherm.com](mailto:info.ch@eurotherm.com)

**UNITED KINGDOM** Worthing  
Eurotherm Limited  
T (+44 1903) 268500  
F (+44 1903) 265982  
E [info.uk@eurotherm.com](mailto:info.uk@eurotherm.com)  
[www.eurotherm.co.uk](http://www.eurotherm.co.uk)

**U.S.A.** Leesburg VA  
Eurotherm Inc.  
T (+1 703) 443 0000  
F (+1 703) 669 1300  
E [info.us@eurotherm.com](mailto:info.us@eurotherm.com)  
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