

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.

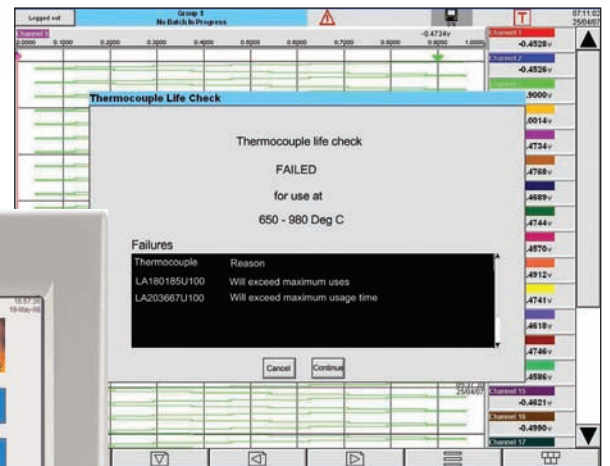
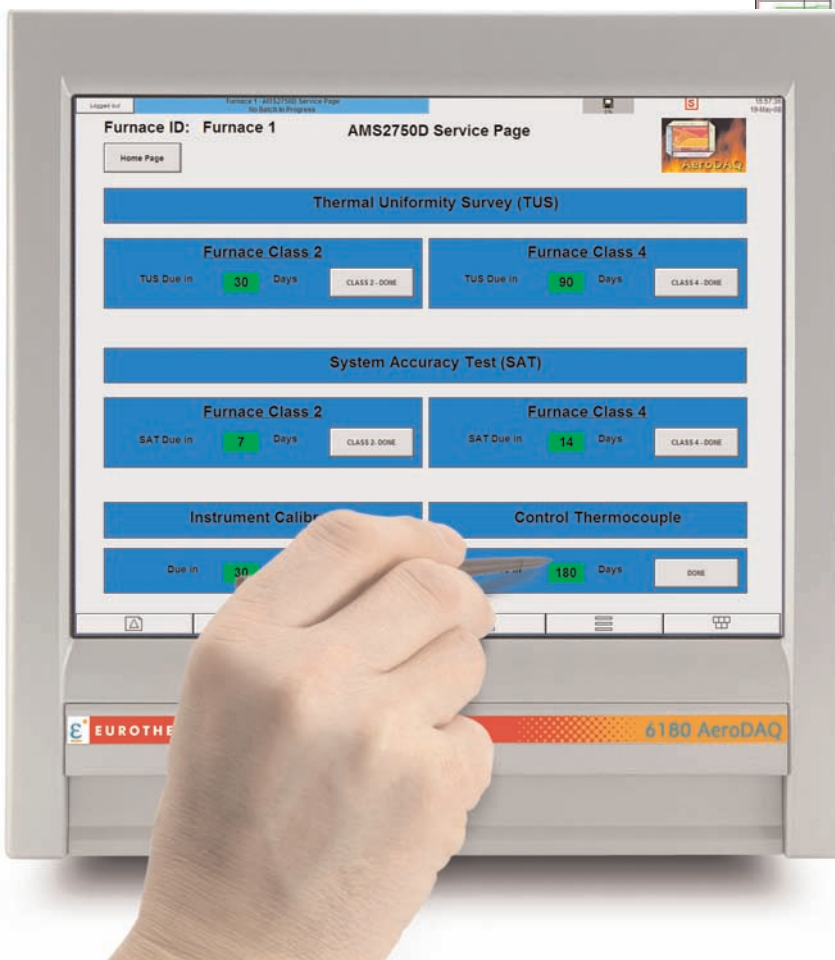
Automated Scheduling

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



TUSs and SATs

Successive conforming TUSs and SATs can lead to reduced frequency of these actions, generating increased productivity and reduced cost of compliance. The 6180 AeroDAQ contains routines to automatically calculate extended TUS and SAT periods according to the Furnace Classes as stated in AMS2750D Tables 6 to 9.

Reporting

Your success depends not only on your skill in managing heat treatment processes, but also in proving that your process conforms to your customers' specifications and the standards of your auditing bodies.

The optional reporting package that can accompany the 6180 AeroDAQ provides a standard batch reporting functionality including

- Customer information
- Batch information
- Trending
- Alarm summary

The 6180 AeroDAQ reporting package can be easily customised to meet your specific requirements, transforming securely archived data into batch information critical to you and your customers.

Report Name: AeroDAQ_EN

Customer Information

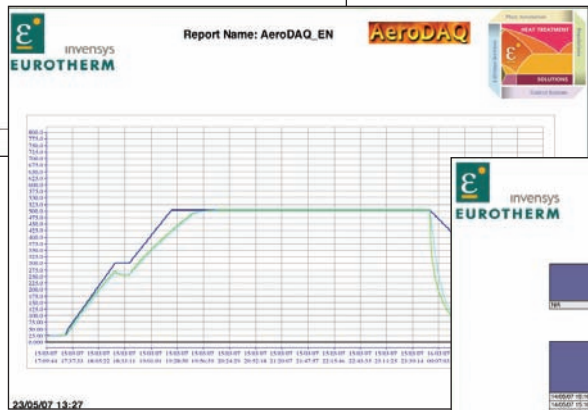
Customer Name: Sharp Metals Ltd Customer A/C No: SH002-1
 Customer Address1: Keen Lane Production O/N: 06-11-12
 Customer Address2: London No of Items: 13
 Customer Order No: SHA0047-1 Card Ref: PRE06

Batch Details Batch ID: 13/1873-2

Start Date Time: 2007-05-18 11:56:02
 End Date Time: 2007-05-18 16:43:29
 Duration (Hours): 4:47:27

Accepted _____ Name _____

23/05/07 13:27



Report Name: AeroDAQ_EN

Batch Alarm

Alarm Text: [Empty]

Batch Messages

Alarm Text: [Log of messages]

23/05/07 13:27

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**Specific
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Compliant**

Standard configuration for AMS2750D accredited furnace. 6180 AeroDAQ available with full Eurotherm 6000 Series functionality.

Analogue Inputs	Display	History Memory	Removable Media	USB Ports	Maths	Batch	Custom Screens	AMS2750D
6	12.1" XGA	32MByte	CF, USB	1 (front)	36	YES	YES	YES

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

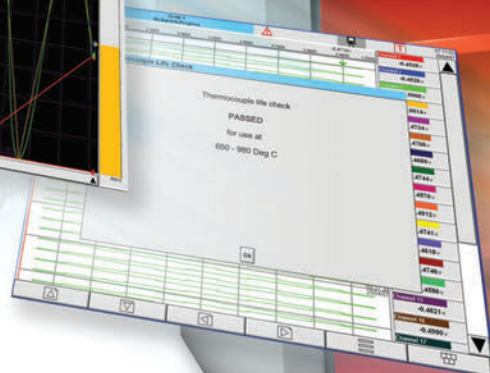
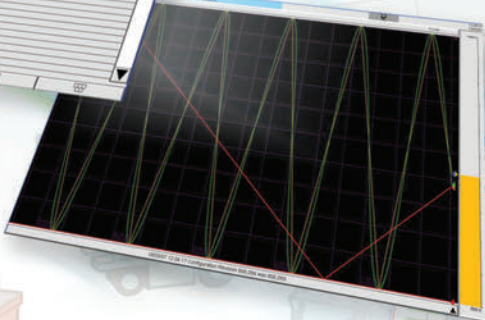
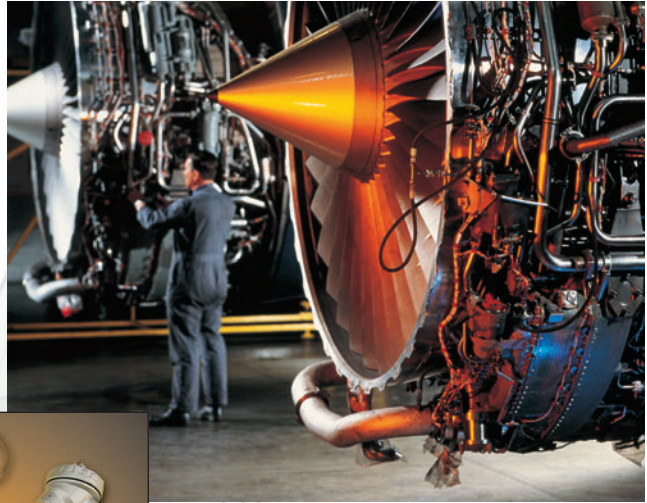
Access to the 6180 AeroDAQ are controlled using an unlimited amount of unique user names and passwords. Each user can be set up with specific access rights - this not only ensures users only get access to the areas they need, it also simplifies operation as dynamic menus show only items the user can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

AMS2750D

Specific
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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.

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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.

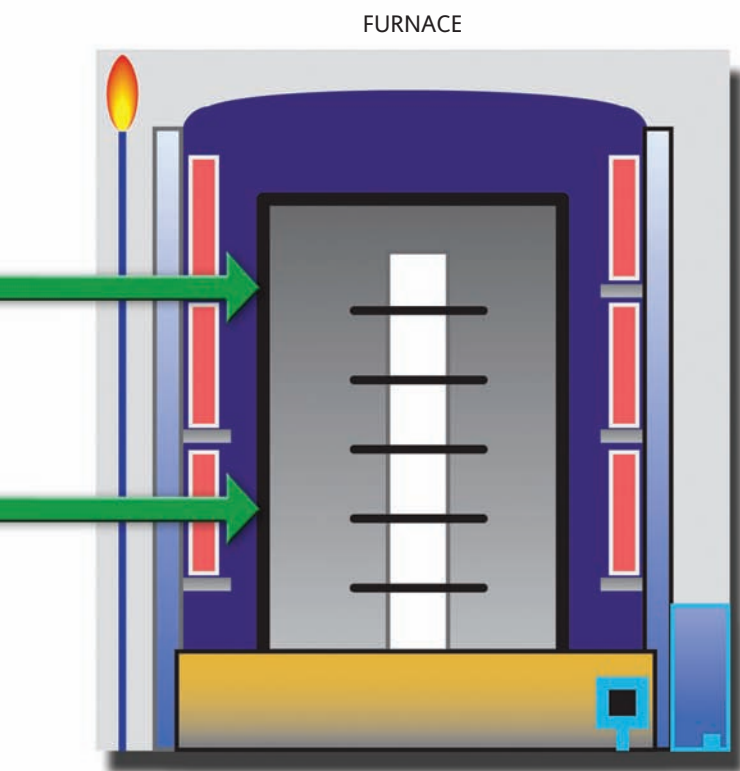
Furnace Classes	Temperature Uniformity Range		6180 AeroDAQ Conformity
	Degrees F	Degrees C	
1	±5°F	±3°C	✓
2	±10°F	±6°C	✓
3	±15°F	±8°C	✓
4	±20°F	±10°C	✓
5	±25°F	±14°C	✓
6	±50°F	±28°C	✓

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.

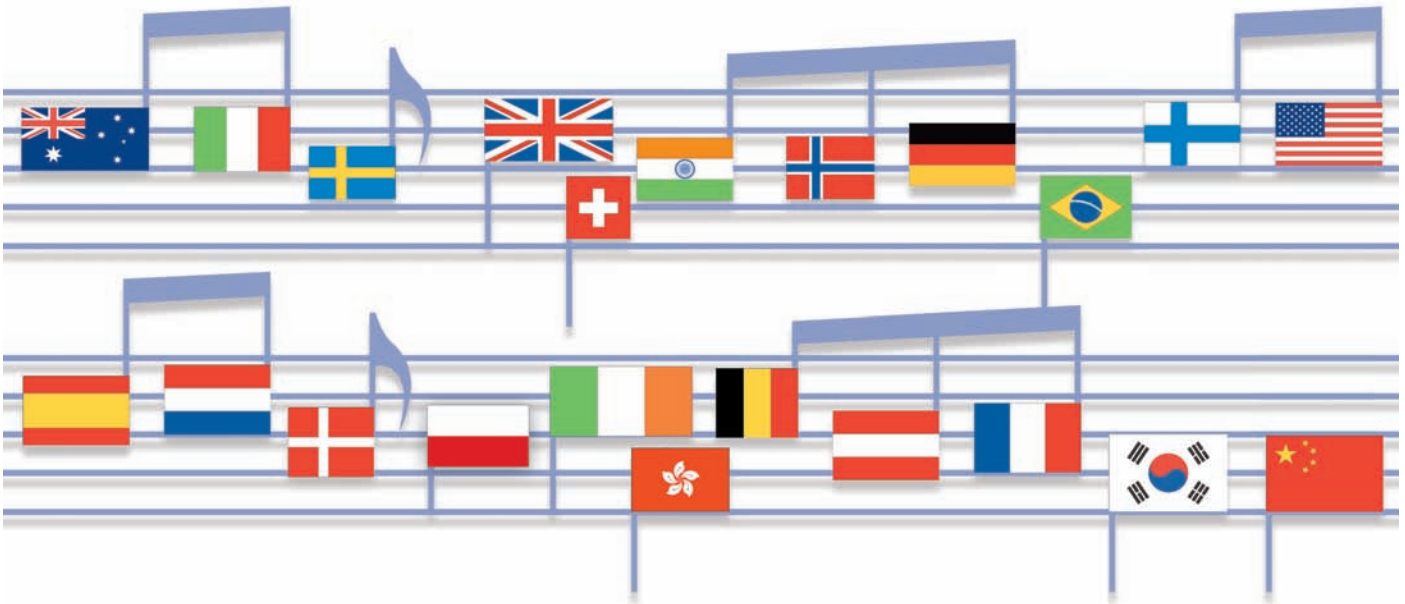
AMS2750D, Table 2 (Thermocouple Types)

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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