## **SMARTDAC+**

## Aerospace Heat Treatment (Option /AH)

Adds compliance with AMS2750F and support in Nadcap-accredited applications

## Nadcap

International certification system for special processes in the aerospace industry

### **AMS2750F**

SAE standard related to pyrometry for equipment used for thermal processing of aerospace parts

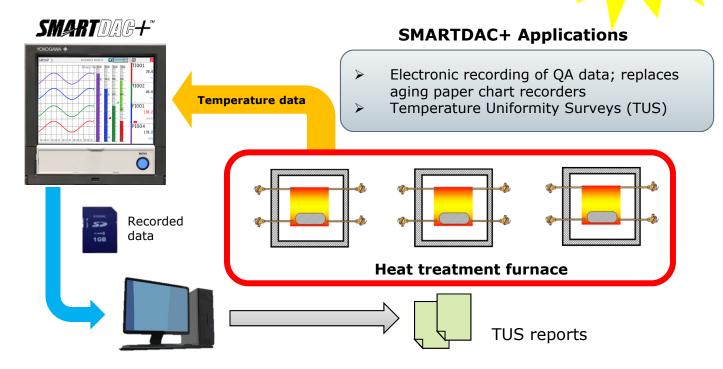
\*Nadcap: National Aerospace and Defense Contractors Accreditation Program

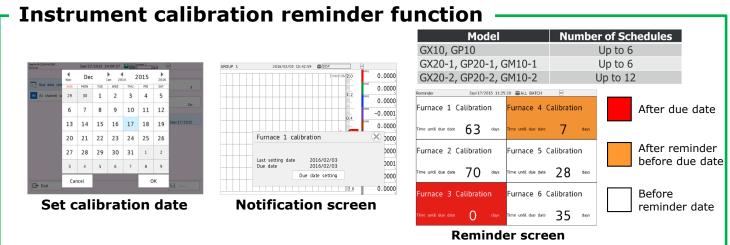
\*AMS: Aerospace Material Specifications

## SMARTDAC+ compliance with AMS2750F

- 1. TC measurement accuracy within  $\pm 1.0$ °F or  $\pm 0.6$ °C (with calibration correction)
- Instrument calibration reminder
- 3. Adds sensor correction factor values to recorded data
- 4. Secure, tamper-proof data with password access management
- 5. Meets field test instrument requirements for TUS work

Use for testing and on-site work

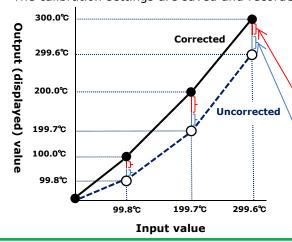




#### **Correction Coefficient Mode of Calibration Correction**

Sensor and recording instrument correction factors can be set separately and accounted for in the recorded data, conforming to AMS2750F.

SMARTDAC+ has up to 11 linearizer function segments for each input channel (Max. 12 set points) The calibration settings are saved and recorded together with the recorded data.



Correction point	1	2	3
Uncorrected input value	99.8 ℃	199.7 ℃	299.6 ℃
Sensor correction factor	0.1 ℃	0.2 ℃	0.2 ℃
Instrument correction factor	0.1 ℃	0.1 ℃	0.2 ℃
Corrected measured value	100.0 ℃	200.0 ℃	300.0 ℃



Corrected values can be confirmed by dedicated software

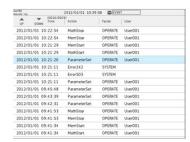
#### **Security functions**



#### Login for controlled access

- Administrator and User level log in
- Selectable User level access properties
- Advanced Security option /AS adds Electronic Signature and Audit Trail

Encrypted binary files to prevent data tampering



E-signature and audit trail functions \*with /AS option

# TUS reporting software (sold separately)

Easily create TUS reports from data measured by recorders



- Max/min temperature
  TUS pass/fail result
- Temperature change trend over time etc.
- Detailed drawings of sensor positions, etc. can be merged into templates

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\* For information on TUS software, contact your Yokogawa representative.

#### YOKOGAWA ELECTRIC CORPORATION

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