

**GEOSCIENCES AND ENGINEERING DIVISION
NONCONFORMANCE REPORT**

Project No. 20.00751.006

NCR No. 2005-31

PART 1: DESCRIPTION OF NONCONFORMANCE

RTD s/n 324, AN 008424 has a specification of less than +/- .3 Degrees Celsius. The unit was found to read greater than +.7 Degrees Celsius during a normally scheduled calibration. Bare wire is exposed through the insulation.

Initiated by: Don Bannon

Date: 19Sep05

Action Required by: Xihua He

Response Due Date: 30Sep05

PART 2: PROPOSED DISPOSITION AND CORRECTIVE ACTION

Disposition: Scrap. No measurements are affected by this out of tolerance condition.

Basis of Disposition: The RTD has specified limits of +/- 0.21 °C at 0.096 °C and +/- 0.27 °C at 149.94 °C. At 0.096 °C and 149.94 °C the RTD had measurement error of 0.71 °C and 0.79 °C, respectively. Corrosion tests have requirements of +/- 2 °C and a measurement error of 0.71 °C and 0.79 °C would not have a significant effect on corrosion measurements. In addition, this RTD was used only as a system temperature indicator and was not used to record official temperature measurements.

Action to Correct Nonconformance: The RTD was removed from service.

Target date for completion: 30Sep05

Proposed by: Xihua He

Date: 27Sep05

PART 3: APPROVAL

Manager: *Maygan*

Date: 9/28/2005

Director of QA: *H. Buit*

Date: 9/28/05

Comments/Instructions:

PART 4: CLOSE OUT

Comments:

No action necessary - instrument was removed from service.

Verified by: *H. Buit*

Date: 9/28/05

Distribution:

Original-CENTER QA Records

ORIGINATOR *Bannon*

PRINCIPAL INVESTIGATOR *He*

MANAGER *JAIN*

ASSISTANT DIRECTOR *MONTANTY*

To: Don Bannon, Div20, Ext. 5118
From: Institute Calibration Laboratory
Date: September 19, 2005
Subject: Returned Equipment

The equipment described below is return "as is" for the reason, indicated. If we can be of further assistance, please contact the Institute Calibration Laboratory, Ext. 5215.

Unit Received: September 09, 2005 Work Requested: Scheduled calibration

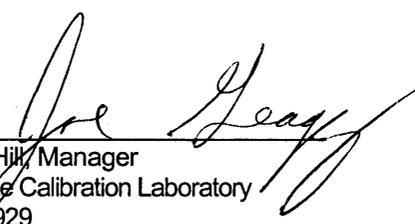
Manufacturer: Duro-Sense Model J-00 Description: RTD

Serial Number: 324 Asset Number: 008424 User ID Number:

Reason for return without calibration or repair:

- Requested by the owning organization
- Required accessories or items listed in remarks not provided by customer.
- Lack of technical data
- Parts are no longer available
- Lack of support by manufacturer
- Other

Remarks: RTD is out of tolerance . See datasheet for actual values.


Walt Hill, Manager
Institute Calibration Laboratory
Ext. 4929

To: Don Bannon, Div20, Ext. 5118**From:** Walt Hill, Metrology Group Leader
Institute Calibration Laboratory**Date:** Sep. 12, 2005**Subject:** Out-of-tolerance Notice

The purpose of this notice is to alert you of a condition, which may have caused erroneous measurements affecting safety or the quality of products or services your organization provides. The attached as-found readings are provided for your evaluation to determine if the instrument listed below had an impact and if further action is required.

When the as-found results are near the specification limit, +/- a margin less than the measurement uncertainty, it is not possible to state in-tolerance or out-of-tolerance with a 95% level of confidence. It is the Institute Calibration Laboratory policy that the client is made aware of this situation because the end-user is taking some of the risk that the instrument listed below may not meet the end-user measurement requirements.

Your review/evaluation should be conducted in accordance with your organizational quality policy and procedural requirements. If we can be of further assistance, please contact the Calibration Laboratory at 522-5215.

Manufacturer: Duro-Sense **Model:** J-00**Description:** Rtd **Serial Number:** 324**Asset Number:** 8424 **User ID Number:****Last Calibration:** Sep. 13, 2004**Date Received for Service:** Sep. 09, 2005 **Work Order Number:** 303065791**Service Requested:** Scheduled calibration**Remarks:** Out of tol. See Data Sheet for actual values.**OUT OF TOLERANCE**

Southwest Research Institute
Calibration Laboratory
Measurement Report

Work Order:	303065791	Mfr:	DURO-SENSE	Technician:	JRG
Asset No:	008424	Model:	J-00	Cal Date:	12-Sep-05
Serial No:	324	Type:	RTD (385)		
Remarks:					
100 Ohm Din A Limited Cal - tested at 0.0 and 150 C Per 16 Nov 00 Memo					

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
Temp	° C	° C	° C	° C	° C	
	0.096	0.809	0.71	0.21	0.041	Fail
	149.94	150.73	0.79	0.27	0.041	Fail
Ohms	Ohms				Ohms	
	100.3161				0.0032	
	157.5990				0.0032	