



Dest Center / Customer: DIV20 / DON BANNONWork Order: 303094821Mail Stop: B51Date Issued: 4-Jun-2010Manufacturer/Model: DURO-SENSE / TYPE KDate Calibrated: 3-Jun-2010Description: THERMOCOUPLE* Date Due : 3-Jun-2011Serial Number: 012151** Results: FOUND-LEFTAsset Number: 012151Temperature: 74.0 °FProcedure: TEMPERATURE PROBES - 5 JUN 06Humidity: 46 %RHBarometer: N/A

This certificate documents traceability to the National Institute of Standards and Technology (NIST) and the International System of Units (SI). The Laboratory quality system conforms to ISO/IEC 17025, 2005, ANSI/NCSL Z540-1-1994 and relevant requirements of the ISO 9000-2000 standard. This certificate shall not be reproduced, except in full, without the written approval of the Southwest Research Institute Calibration Laboratory. This certificate shall not be used to claim product endorsement by Southwest Research Institute, American Association for Laboratory Accreditation (A2LA) or any agency of the U. S. Government. Results of this calibration relate only to the instrument described above at the time of calibration and does not imply any long term stability of the instrument.

*Determined by the customer, does not imply the instrument will remain within tolerance as any number of factors may cause an out-of-tolerance condition before this date. **Data type found in this certificate or attached measurement report must be interpreted as: Found-left - adjustment and/or repair was not performed, As-found - data is before unit is adjusted and/or repaired, As-left - data is after adjusted and/or repaired was performed. The customer has sole responsibility for determination of in-/out-of-tolerance or compliance/noncompliance.

Measurement uncertainty calculated in accordance with the method described in the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM), for a confidence level of approximately 95 percent using a coverage factor of k=2.

Remarks: CAL @ 0°C and 150°C

Standards Used

Asset #	<u>Manufacturer</u>	Model	Description	<u>Cal Date</u>	Due Date
012305	HART SCIENTIFIC	1502A	TEMPERATURE READOUT	14-May-2010	14-Nov-2010
014652	HART SCIENTIFIC	5615	RTD	14-May-2010	14-Nov-2010
015240	HART SCIENTIFIC	2566	TC SCANNER, 12-CHANNEL MODULE	16-Dec-2009	16-Dec-2010

il. Walt Walt Hill

Laboratory Manager m:VA2LA OCT_08.rpt

⁽ Mark Romero Metrology Technician

Southwest Research Institute Calibration Laboratory Measurement Report

Work Order: Asset No. Serial No.	ler: 303094821 Mfr. Duro-sense 012151 Model Type K 012151 Type. Thermocouple			Technician: Mark Romero Type Data: Found-lef: Cal Date: 3-Jun-10		omero lef: 10	
Remarks:							
Function/Range	Test Point	TI Reading	Difference	+/- Limit	+/- Uncertainty	Result	% Limit
Temperature	°C	°C	°C	°C	°C		
	0.153	0.262	0.109	2.2	0.5	Pass	5%
	150.119	152.069	1.950	2.2	0.5	Pass	89%
		END	OF REPORT				