



# SOUTHWEST RESEARCH INSTITUTE®

6220 Culebra Road, P.O. Drawer 28510  
Institute Quality Systems  
Institute Calibration Laboratory  
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Calibration Laboratory  
Certificate #0972-01

## Certificate of Calibration

Cost Center / Customer: DIV20 / DON BANNON

Mail Stop: B57

Manufacturer/Model: DIGI-SENSE / 08516-55 / TYPE K

Description: THERMOCOUPLE PROBE

Serial Number: 12196

Asset Number: 012196

Procedure: TEMPERATURE PROBES - 5 JUN 06

Work Order: 303103245

Date Issued: 19-Aug-2011

Date Calibrated: 19-Aug-2011

\* Date Due : 19-Aug-2012

\*\* Results: FOUND-LEFT

Temperature: 73.3 °F

Humidity: 52 %RH

Barometer: 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 -20 °C to 200 °C

### Standards Used

<u>Asset #</u>	<u>Manufacturer</u>	<u>Model</u>	<u>Description</u>	<u>Cal Date</u>	<u>Due Date</u>
009137	HART SCIENTIFIC	1575	SUPER THERMOMETER	11-Jul-2011	11-Jan-2012
013508	HART SCIENTIFIC	5628	SPRT	3-Feb-2011	3-Feb-2012
015240	HART SCIENTIFIC	2566	TC SCANNER, 12-CHANNEL MODULE	29-Nov-2010	29-Nov-2011

  
Walt Hill

Laboratory Manager

  
Mark Romero

Metrology Technician

Southwest Research Institute  
Calibration Laboratory  
Measurement Report

Work Order:	303103245	Mfr.	Digi-Sense	Technician:	Mark Romero
Asset No.	012196	Model	08516-55/ Type K	Type Data:	Found-left
Serial No.	12196	Type.	Thermocouple Probe	Cal Date:	19-Aug-11
Remarks:					

Function/Range	Test Point	TI Reading	Difference	+/- Limit	+/- Uncertainty	Result	% Limit
Temperature	°C	°C	°C	°C	°C		
	-19.8	-18.7	1.1	2.2	0.5	Pass	50%
	0.1	0.7	0.5	2.2	0.5	Pass	23%
	75.0	74.7	-0.3	2.2	0.5	Pass	15%
	150.0	150.7	0.7	2.2	0.5	Pass	32%
	200.3	201.1	0.9	2.2	0.5	Pass	40%

END OF REPORT