

# SOUTHWEST RESEARCH INSTITUTE

## Calibration Laboratory

### WORK ORDER

Received by RCRUZ, 6/7/02 3:01:18PM

Arrived 6/7/02

Work Order **444048979**

Asset No. 009477 Manufacturer VIATRAN

Model 245

Equipment Type PRESSURE TRANSDUCER

Serial No. 296929

Accessory No.

Interval 0 N

Calibration Procedure \_\_\_\_\_ Location \_\_\_\_\_

Div/Client DIV20

Custodian CYNTHIA DINWIDDIE

Mail Stop B189

Tel 6085

**IN LINE**

Special Instructions \_\_\_\_\_

Notify before adjustments or repairs. ( ) Provide data with certificate ( ) Certificate Typ. \_\_\_\_\_

Charge/Project No. 01402.861 1.20

Requester / Telephone \_\_\_\_\_

This information is correct for the work requested. \_\_\_\_\_

### WORK NOTES

Date	Hours	Remarks/Notes
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Date	Hours	Part Name	Part Number	Failure Description	Cost
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Failure Description \_\_\_\_\_

Repair Action \_\_\_\_\_

Tech. [Signature] Cal Hrs. 2 Repair Hrs. \_\_\_\_\_ Parts Cost \_\_\_\_\_ Temp 68 F Hum. 39 %

Standards Used 3048, 2856, 3949, 3216

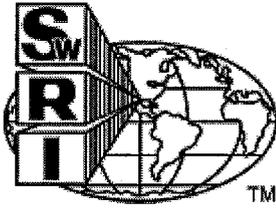
Date Picked Up 06/11/02

Picked Up By Cynthia L. Dinwiddie

48979







Southwest Research Institute  
6220 Culebra Road  
San Antonio, TX 78238  
(210) 522-5215  
Department of Quality Assurance  
Calibration Laboratory

## Certificate of Calibration

10 June 2002

**Issued to:** CYNTHIA DINWIDDIE DIV20 B189  
**Manufacturer/Model:** VIATRAN 245  
**Description:** PRESSURE TRANSDUCER  
**Serial Number:** 296929  
**Asset Number:** 009477  
**Work Order Number:** 444048979

This certifies the above item was calibrated in compliance with MIL-STD-45662A and ANSI/NCSL Z540-1-1994. Standards used in this calibration, described in the referenced calibration procedure with associated uncertainties or tolerances, are traceable to the National Institute of Standards and Technology (NIST). Supporting documentation relative to traceability is on file and is available for examination upon request. This certificate is not to be reproduced, except in full, without the written approval of the Southwest Research Institute Department of Quality Assurance Calibration Laboratory.

The uncertainty of the calibration was sufficient to determine that the item met the manufacturer's published specifications unless stated otherwise below.

**Ambient Conditions:** Temperature: 68.0 Degrees Fahrenheit Humidity: 39 % RH

**Calibration Date:** 10 Jun 02 **Calibration Procedure:** CLCP-PI-001 6/99

**Condition as Received:** IN TOLERANCE

**Condition as Returned:** IN TOLERANCE

**Remarks:**

**Approved by:**

  
Walt Hill, Metrology Group Leader  
Institute Calibration Laboratory

**Measurements performed by:**

  
Mack Wood, Technician

# SOUTHWEST RESEARCH INSTITUTE

## Calibration Laboratory

### WORK ORDER

Received by RCRUZ, 7/2/02 1:19:06PM

||||| ||||| ||||| ||||| ||||| ||||| |||||

Arrived 7/2/02

Work Order **444049266**

Asset No. 009477 Manufacturer VIATRAN

Model 245

Equipment Type PRESSURE TRANSDUCER

Serial No. 296929

Accessory No.

Interval 0 M

Calibration Procedure CLCP-PI-001 6/99

Location

Div/Client DIV20

Custodian CYNTHIA DINWIDDIE

Mail Stop B189

Tel 6085

**IN LINE**

Special Instructions \_\_\_\_\_

Notify before adjustments or repairs. ( ) Provide data with certificate ( ) Certificate Typ \_\_\_\_\_

Charge/Project No. 01402.861 1.20

Requester / Telephone

This information is correct for the work requested. \_\_\_\_\_

### WORK NOTES

Date	Hours	Remarks/Notes
		Does not meet mfr's $\pm 0.1\%$ FS. Tolerance
		but does meet a $\pm 0.25\%$ Tol

Date	Hours	Part Name	Part Number	Failure Description	Cost

### WORK SUMMARY

Failure Description \_\_\_\_\_

Repair Action \_\_\_\_\_

Tech [Signature] Cal Hrs. 2 Repair Hrs \_\_\_\_\_ Parts Cost \_\_\_\_\_ Temp 68 F Hum. 39 %

Standards Used 3048, 2852, 5949, 3216

Date Picked Up \_\_\_\_\_

Picked Up By [Signature]

444049266







# SOUTHWEST RESEARCH INSTITUTE

6220 CULEBRA ROAD • POST OFFICE DRAWER 28510 • SAN ANTONIO, TEXAS, 78228-0510 • TEL (210) 522-5215 • FAX (210) 522-3692

**To:** Cynthia Dinwiddie, Div 20, B189

**From:** Walt Hill, Metrology Group Leader  
Institute Calibration Laboratory

**Date:** Jul. 02, 2002

**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:** Viatran **Model:** 245

**Description:** Pressure Transducer

**Serial Number:** 296929

**Asset Number:** 9477 **User ID Number:**

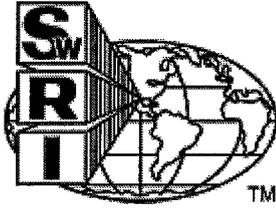
**Last Calibration:** Jun 11, 2002

**Date Received for Service:** Jul. 02, 2002 **Work Order Number:** 444049266

**Service Requested:** Scheduled calibration

**Remarks:** Does not meet the manufacturer's tolerance of +/-0.1%, but does meet a tolerance of +/- 0.25%.

OUT OF TOLERANCE



Southwest Research Institute  
6220 Culebra Road  
San Antonio, TX 78238  
(210) 522-5215  
Department of Quality Assurance  
Calibration Laboratory

## Certificate of Calibration

2 July 2002

**Issued to:** CYNTHIA DINWIDDIE DIV20 B189  
**Manufacturer/Model:** VIATRAN 245  
**Description:** PRESSURE TRANSDUCER  
**Serial Number:** 296929  
**Asset Number:** 009477  
**Work Order Number:** 444049266

This certifies the above item was calibrated in compliance with MIL-STD-45662A and ANSI/NCSL Z540-1-1994. Standards used in this calibration, described in the referenced calibration procedure with associated uncertainties or tolerances, are traceable to the National Institute of Standards and Technology (NIST). Supporting documentation relative to traceability is on file and is available for examination upon request. This certificate is not to be reproduced, except in full, without the written approval of the Southwest Research Institute Department of Quality Assurance Calibration Laboratory.

The uncertainty of the calibration was sufficient to determine that the item met the manufacturer's published specifications unless stated otherwise below.

**Ambient Conditions:** Temperature: 68.0 Degrees Fahrenheit Humidity: 39 % RH

**Calibration Date:** 2 Jul 02 **Calibration Procedure:** CLCP-PI-001 6/99

**Condition as Received:** OUT OF TOLERANCE

**Condition as Returned:** OUT OF TOLERANCE

**Remarks:** DOES NOT MEET MFR'S TOLERANCE OF 0.1%, BUT DOES MEET A TOLERANCE OF 0.25%

**Approved by:**

  
Walt Hill, Metrology Group Leader  
Institute Calibration Laboratory

**Measurements performed by:**

  
Mack Wood, Technician