

SOUTHWEST RESEARCH INSTITUTE

Calibration Laboratory

WORK ORDER

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

Arrived 6/7/02

Work Order **444048981**

Asset No. 009475 Manufacturer AALBORG INSTRUMENTS

Model GFM173

Equipment Type FLOW METER

Serial No. G19416

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
<u>6-12-02</u>		<u>Rule Cal A 250^{cc}</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

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

WORK SUMMARY

Failure Description _____

Repair Action _____

Tech _____ Cal Hrs. _____ Repair Hrs _____ Parts Cost _____ Temp _____ F Hum. _____ %

Standards Used _____

Date Picked Up 06/11/02

Picked Up By Cynthia L. Dinwiddie

48981

MFC
PRODUCTS

CALIBRATION REPORT

C-543-2

Date: 6/11/02
Customer Information:
Southwest Research

Std. Temp.: 70 F
Std. Pressure: 29.92
Gas: Air
Ref. Gas: Air K factor 1
Range: 500 SCCM
Inlet Pressure: AS REQUIRED
Ambient Pressure: 29.935
%RH: 32%
Ambient Temp.: 68 F
Cal. STD.: PRIMARY TUBES
Model #: B924
Serial #: 680
Cal. Method #: 103

Device Type:
MFM

Rated Accuracy
2% Full Scale
Model # GFM173 Serial # G19416

CALIBRATION DATA

READ	ACT.	TOL(SCCM)
0.0	0.0	0.00
128.00	123.00	10.00
269.00	275.00	10.00
380.00	382.00	10.00
480.00	478.00	10.00

Rec'd in spec. N/A
Out of spec. N/A

Cal. performed by: PV
Title: CAL. TECH.

NOTES:

All Calibrations are NIST traceable.
Uncertainty is .2 %
This report shall not be reproduced except
in full without written approval by Rule.

**SOUTHWEST RESEARCH INSTITUTE
CALIBRATION LABORATORY
MEMORANDUM**

June 13, 2002

To: CYNTHIA DINWIDDIE DIV20 B189

From: Walt Hill, Metrology Group Leader
Institute Calibration Laboratory

Subject: Status of Calibration Supplier

Manufacturer/Model: AALBORG INSTRUMENTS GFM173

Description: FLOW METER

Serial Number: G19416

Asset Number: 009475

Work Order Number: 444048981

Date Calibrated: June 11, 2002

Supplier: RULE PRODUCTS, ROUND ROCK, TX

Remarks: Rule Products Cert # C543-2

- Supplier is on the Approved Suppliers List (ASL) and is accredited.
- Supplier is on the Approved Suppliers List (ASL) but is not accredited.
- There is no known accredited supplier at this time.
- Supplier is not on the Approved Suppliers List (ASL). Please contact Don Dunavant at ext. 2942 if you wish to add the supplier to the ASL.

Please notify the Institute Calibration Laboratory, extension 5215, of any discrepancies with the item or calibration documentation.

Attachment(s) 1

FATHOM
PRODUCTS

CALIBRATION REPORT

C-547-2

Date: 7/10/02
Customer Information:
Southwest Research

Std. Temp.: 70 F
Std. Pressure: 29.92
Gas: Air
Ref. Gas: Air K factor 1
Range: 500 SCCM
Inlet Pressure: AS REQUIRED
Ambient Pressure: 29.035
%RH: 32%
Ambient Temp.: 68 F
Cal. STD.: PRIMARY TUBES
Model #: B924
Serial #: 660
Cal. Method #: 103

Device Type:
MFM

Rated Accuracy
2% Full Scale
Model # GFM173 Serial # G18416

CALIBRATION DATA

READ	ACT.	TOL(SCCM)
0.0	0.0	0.00
127.00	118.00	10.00
271.00	277.00	10.00
382.00	374.00	10.00
489.00	481.00	10.00

Rec'd in spec. x
Out of spec. _____

Cal. performed by: 
Title: CAL. TECH.

NOTES:

All Calibrations are NIST traceable.
Uncertainty is .2 %
This report shall not be reproduced except
in full without written approval by Rule.

**SOUTHWEST RESEARCH INSTITUTE
CALIBRATION LABORATORY
MEMORANDUM**

July 12, 2002

To: CYNTHIA DINWIDDIE DIV20 B189

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

Subject: Status of Calibration Supplier

Manufacturer/Model: AALBORG INSTRUMENTS GFM173

Description: FLOW METER

Serial Number: G19416

Asset Number: 009475

Work Order Number: 444049393

Date Calibrated: July 10, 2002

Supplier: RULE PRODUCTS, ROUND ROCK, TX

Remarks: Rule Cert # C-547-2

- Supplier is on the Approved Suppliers List (ASL) and is accredited.
- Supplier is on the Approved Suppliers List (ASL) but is not accredited.
- There is no known accredited supplier at this time.
- Supplier is not on the Approved Suppliers List (ASL). Please contact Don Dunavant at ext. 2942 if you wish to add the supplier to the ASL.

Please notify the Institute Calibration Laboratory, extension 5215, of any discrepancies with the item or calibration documentation.

Attachment(s) 1