

SPAN - VAC GAUGE

Certification of Calibration

Kansas City Calibration Lab., Inc.

8391 Melrose Drive
Lenexa, Kansas 66214



UNIT UNDER TEST:	Span Instrument LFS-310-30 0-30 inHg 1% FS Gauge	TEST RESULT:	PASS
SERIAL NUMBER:	60824	PERFORMED ON:	9/1/2017
ASSET NUMBER:	60824	DATA TYPE:	FOUND-LEFT
PROCEDURE NAME:	0 to 30 inHg Vacuum 1.0% FS:Cert Mensor CPC6000	TEMPERATURE:	23.2°C
PROCEDURE REV.:	200170712	HUMIDITY:	37 %
CALIBRATED BY:	Bart Schwartz	BAROMETRIC:	30.1 inHg
P.O. NUMBER:		Recertification Date	
CUSTOMER:	Underground Safety Equipment	September 01, 2018	
	3801 N Arlington Avenue	Certification Number:	00063138
	Kansas City, MO 64161	Previous Certification Date:	July 06, 2016
Cal Seals Intact:	Yes		

K.C. Calibration Lab., Inc. certifies that the above listed instrument meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the National Institute of Standards and Technology (NIST), or to NIST accepted intrinsic standards of measurement, or derived by the ratio type of self-calibration techniques. This calibration complies with MIL-STD-45662A and ANSI/NCSS Z540-1-1994.

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Note: Any Test Uncertainty Ratio (TUR) that is less than four to one will appear under the "TUR" heading on the data record. If the TUR meets or exceeds four to one, the field is left blank.

REMARKS:

Standards Used			
Asset #	Description	Cal Date	Due Date
4100009X	Mensor CPC6000 Low & Medium Pressure Calibrator	6/20/2017	6/20/2018

Test Results

Test Description	True Value	Test Result	Lower Limit	Upper Limit	Units	TUR
Vertical Accuracy: ±1.0% FS INHG @ 60F						
Reference Documents: Mfr. Manuals						
0.00 inHg	0.00	0.000	-0.300	0.300	inHg	Pass
-5.00 inHg	-5.00	-5.000	-5.300	-4.700	inHg	Pass
-10.00 inHg	-10.00	-10.000	-10.300	-9.700	inHg	Pass
-15.00 inHg	-15.00	-15.000	-15.300	-14.700	inHg	Pass
-20.00 inHg	-20.00	-20.000	-20.300	-19.700	inHg	Pass
-25.00 inHg	-25.00	-25.000	-25.300	-24.700	inHg	Pass

Report of Certification for

SERIAL NUMBER: 60824

ASSET NUMBER: 60824

Printed On:

Friday, September 1, 2017

Test Results indicate the following: Found-Left: Unit was left as found. As-Left: Unit was left after adjustments.



*****END OF CERTIFICATE*****

Signed: 
Bart A. Schwartz , Engineer in Charge

VAC gauge



Certification of Calibration

Kansas City Calibration Lab., Inc.

8391 Melrose Drive
Lenexa, Kansas 66214



UNIT UNDER TEST:	Span Instrument LFS-310-30 0-30 inHg 1% FS Gauge	TEST RESULT:	PASS
SERIAL NUMBER:	60714	PERFORMED ON:	11/22/2017
ASSET NUMBER:	60714	DATA TYPE:	FOUND-LEFT
PROCEDURE NAME:	0 to 30 inHg Vacuum 1.0% FS:Cert Mensor CPC6000	TEMPERATURE:	24.6°C
PROCEDURE REV.:	200170712	HUMIDITY:	31 %
CALIBRATED BY:	Dan Koontz	BAROMETRIC:	30.4 inHg
P.O. NUMBER:		Recertification Date	
CUSTOMER:	Underground Safety Equipment 3801 N Arlington Avenue Kansas City, MO 64161	November 22, 2018	
Cal Seals Intact:	Yes	Certification Number:	00063484
		Previous Certification Date:	June 07, 2016

K.C. Calibration Lab., Inc. certifies that the above listed instrument meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the National Institute of Standards and Technology (NIST), or to NIST accepted intrinsic standards of measurement, or derived by the ratio type of self-calibration techniques. This calibration complies with MIL-STD-45662A and ANSI/NC SL Z540-1-1994.

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REMARKS:

Standards Used			
Asset #	Description	Cal Date	Due Date
610183M	Mensor CPC6000 Medium Pressure Calibrator	7/7/2017	7/7/2018

Test Results

Test Description	True Value	Test Result	Lower Limit	Upper Limit	Units	TUR
Vertical Accuracy: ±1.0% FS INHG @ 60F						
Reference Documents: Mfr. Manuals						
0.00 inHg	0.00	0.000	-0.300	0.300	inHg	Pass
-5.00 inHg	-5.00	-5.000	-5.300	-4.700	inHg	Pass
-10.00 inHg	-10.00	-10.000	-10.300	-9.700	inHg	Pass
-15.00 inHg	-15.00	-15.000	-15.300	-14.700	inHg	Pass
-20.00 inHg	-20.00	-20.000	-20.300	-19.700	inHg	Pass
-25.00 inHg	-25.00	-25.000	-25.300	-24.700	inHg	Pass

Report of Certification for

SERIAL NUMBER: 60714

ASSET NUMBER: 60714

Printed On:

Wednesday, November 22, 2017

Page 1 of 2

Test Results indicate the following: **Found-Left:** Unit was left as found. **As-Left:** Unit was left after adjustments.



*****END OF CERTIFICATE*****

Signed: 
Bart A. Schwartz , Engineer in Charge



M/H
vacuum
tester

Gray Vacuum Hose

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Kansas City Calibration Lab., Inc.
8391 Melrose Drive
Lenexa, Kansas 66214



UNIT UNDER TEST:	Span Instrument LFS-310-30 0-30 inHg 1% FS Gauge	TEST RESULT:	PASS
SERIAL NUMBER:	60740	PERFORMED ON:	7/12/2017
ASSET NUMBER:	60740	DATA TYPE:	AS-LEFT
PROCEDURE NAME:	0 to 30 inHg Vacuum 1.0% FS: Cert Mensor CPC6000	TEMPERATURE:	24.1°C
PROCEDURE REV.:	200170712	HUMIDITY:	43 %
CALIBRATED BY:	Bart Schwartz	BAROMETRIC:	29.9 inHg
P.O. NUMBER:		Recertification Date	
CUSTOMER:	Underground Safety Equipment 3801 N Arlington Avenue Kansas City, MO 64161	July 12, 2018	
Cal Seals Intact:	Yes	Certification Number:	00062864
		Previous Certification Date:	June 13, 2016

K.C. Calibration Lab., Inc. certifies that the above listed instrument meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the National Institute of Standards and Technology (NIST), or to NIST accepted intrinsic standards of measurement, or derived by the ratio type of self-calibration techniques. This calibration complies with MIL-STD-45662A and ANSI/NCCL Z540-1-1994.

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REMARKS:

Standards Used			
Asset #	Description	Cal Date	Due Date
4100009X	Mensor CPC6000 Low & Medium Pressure Calibrator	6/20/2017	6/20/2018

Test Results

Test Description	True Value	Test Result	Lower Limit	Upper Limit	Units	TUR
Vertical Accuracy: ±1.0% FS INHG @ 60F						
Reference Documents: Mfr. Manuals						
-5.00 inHg	-5.00	-5.000	-5.300	-4.700	inHg	Pass
-10.00 inHg	-10.00	-10.000	-10.300	-9.700	inHg	Pass
-15.00 inHg	-15.00	-15.000	-15.300	-14.700	inHg	Pass
-20.00 inHg	-20.00	-19.800	-20.300	-19.700	inHg	Pass
-25.00 inHg	-25.00	-24.900	-25.300	-24.700	inHg	Pass

Report of Certification for

SERIAL NUMBER: 60740

ASSET NUMBER: 60740

Printed On:

Wednesday, July 12, 2017

Test Results indicate the following: Found-Left: Unit was left as found. As-Left: Unit was left after adjustments.

*****END OF CERTIFICATE*****



Signed: 
Bart A. Schwartz , Engineer in Charge