



AL-HOTY CALIBRATION SERVICES

A BRANCH OF AL-HOTY CO. LTD.

Calibration Laboratory
C.R. 2051015391
P.O. Box 31729, Al-Khobar 31952
Kingdom of Saudi Arabia
Tel. : (013) 8644150 / 8948020 / 8945452
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E-Mail : acs.kh@al-hoty.com
Website: www.al-hoty.com



Calibration Cert #: 12 N \ 1417

Certificate of Calibration

Certificate No: AI-171684

Customer Name: A.H. Al Marhoon & Brothers Co.
Address: P. O. Box 42 Safwa 31921, K. S. A.

Product Identification and Specification

Item Submitted: Water Meter
Manufacturer: Command Alkon
Model: Spectrum VI
Serial Number: C13124964-W
Asset Number: N/A
Customer P.O.: 0788

Page No: 1 of 2
Received Date: 21 November 2014
Calibration Date: 21 November 2014
Calibration Due Date: 21 March 2015
Received Condition: In good condition
Returned Condition: In good condition

Calibration Procedure: ICP-I-078

Summary of Procedure: The Unit Under Test (UUT), a water meter was calibrated by measuring the actual output using a volumetric graduated container.

Environmental Condition: 26.5 / 53.1%RH

Calibration Results: (see the next page)

Calibration Notes:


Basis of Tolerance : ASTM C94/C94M-09
Max. Capacity : 65,535 liters / Min. Division : 5 liters
Location : Est Plant, Rahima

Standard Used to Calibrate Instrument:

Description	ACS Number	Cal Due Date	Traceability
Volumetric Graduated Container	ACS-KH-392	01 August 2015	168240 (NMCC, KSA / SCS, SWISS)
Digital Thermo-Hygro-Anemometer	ACS-KH-398	01 August 2015	168241 (NIST, USA)

Calibrated By: 
Calibration Tech. (Stamp)



Approved By: 
Quality Manager

The reported expanded uncertainty of measurement is stated as the standard uncertainty measurement multiplied by the coverage factor k=2, providing a level of confidence of approximately 95%.

This certifies that the above listed instrument has been calibrated using standards whose accuracies are traceable to national or international standards and in accordance with the quality system conform to ISO/IEC 17025:2005.

This certificate applies only to the item described. Calibration certificate without signature and stamp is not valid. The readings presented are the results at the time of calibration and do not carry any implication regarding the long term stability of the item submitted.

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AL-HOTY CALIBRATION SERVICES

Water Meter	Certificate Number: AL-171684
Serial Number C13124964-W	Page: 2 of 2

Calibration Results

Test Description	Meter Setting (liters)	Measured (liters)	Error (% of reading)	Tolerance (% of reading)	Uncertainty (liters)
Meter Accuracy Test	200	200	0.00	±1	± 2.93
	400	400	0.00	±1	± 3.06



End of Certificate



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Calibration Cert #: 12 N \ 1417

Certificate of Calibration

Certificate No: AI-171682

Customer Name: A.H. Al Marhoon & Brothers Co.
Address: P. O. Box 42 Safwa 31921, K. S. A.

Product Identification and Specification

Item Submitted: Cement Scale
Manufacturer: Command Alkon
Model: Spectrum VI
Serial Number: C13124964-C
Asset Number: N/A
Customer P.O: 0788

Page No: 1 of 2
Received Date: 21 November 2014
Calibration Date: 21 November 2014
Calibration Due Date: 21 March 2015
Received Condition: Out of tolerance
Returned Condition: Adjusted, within the tolerance

Calibration Procedure: ICP-I-071

Summary of Procedure: The Unit Under Test (UUT), a cement scale was carried-out by build-up test method using known weights with material or other product used during production. The test weights were placed onto the hopper and reading was then taken from the scale / indicator.

Environmental Condition: 26.2°C/54.7%RH

Calibration Results: (see the next page)

Calibration Notes:

Basis of Tolerance : ASTM C94/C94M-09
Max. Capacity : 3,500 kg / Min. Division : 1 kg
Location : Est Plant, Rahima

Standard Used to Calibrate Instrument:

Description

Test Weights
Digital Thermo-Hygro-Anemometer

ACS Number

ACS-KH-027

ACS-KH-398

Cal Due Date

20 April 2015

01 August 2015

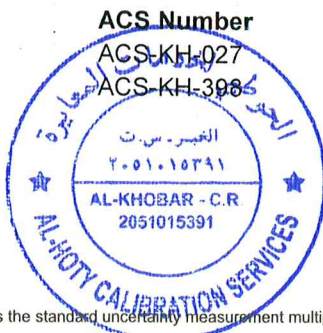
Traceability

170510 (NMCC, KSA)

168241 (NIST, USA)

Calibrated By: _____

Calibration Tech. (Stamp)



Approved By: _____

Quality Manager

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AL-HOTY CALIBRATION SERVICES

Cement Scale	Certificate Number: AI-171682
Serial Number: C13124964-C	Page: 2 of 2

Calibration Results

Test Description	Applied Load (kg)	UUT Reading (kg)		Error (% of F. S.)	Tolerance (% of F. S.)	Uncertainty (kg)
		(as found)	(as left)			
Scale Accuracy Test	0	0	0	0.00	± 0.15	± 0.58
	200	206	200	0.00	± 0.15	± 0.58
	400	-	400	0.00	± 0.15	± 0.58
	600	-	600	0.00	± 0.15	± 0.58
	800	-	800	0.00	± 0.15	± 0.58
	1000	-	1000	0.00	± 0.15	± 0.58



End of Certificate



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Calibration Cert #: 12 N \ 1417

Certificate of Calibration

Certificate No: AI-171681

Customer Name: A.H. Al Marhoon & Brothers Co.
Address: P. O. Box 42 Safwa 31921, K. S. A.

Product Identification and Specification

Item Submitted: Aggregate Scale
Manufacturer: Command Alkon
Model: Spectrum
Serial Number: C13124964-A
Asset Number: N/A
Customer P.O: 0788

Page No: 1 of 2
Received Date: 21 November 2014
Calibration Date: 21 November 2014
Calibration Due Date: 21 March 2015
Received Condition: In good condition
Returned Condition: In good condition

Calibration Procedure: ICP-I-071

Summary of Procedure: The Unit Under Test (UUT), an aggregate scale was carried-out by build-up test method using known weights with material or other product used during production. The test weights were placed onto the hopper and reading was then taken from the scale / indicator.

Environmental Condition: 26.0°C/55.3%RH

Calibration Results: (see the next page)

Calibration Notes:

Basis of Tolerance : ASTM C94/C94M-09
Max. Capacity : 12,000 kg / Min. Division : 5 kg
Location : Est Plant, Rahima

Standard Used to Calibrate Instrument:

Description

Test Weights
Digital Thermo-Hygro-Anemometer

ACS Number

ACS-KH-027
ACS-KH-398

Cal Due Date

20 April 2015
01 August 2015

Traceability

170510 (NMCC, KSA)
168241 (NIST, USA)

Calibrated By: _____
Calibration Tech. (Stamp)



Approved By: _____
Quality Manager

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AL-HOTY CALIBRATION SERVICES

Aggregate Scale	Certificate Number: AI-171681
Serial Number: C13124964-A	Page: 2 of 2

Calibration Results

Test Description	Applied Load (kg)	UUT Reading (kg)		Error (% of F. S.)	Tolerance (% of F. S.)	Uncertainty (kg)
		(as found)	(as left)			
Scale Accuracy Test	0	0	0	0.00	± 0.15	± 2.89
	500	500	500	0.00	± 0.15	± 2.89
	1000	1000	1000	0.00	± 0.15	± 2.89
	1500	1500	1500	0.00	± 0.15	± 2.89
	2000	2000	2000	0.00	± 0.15	± 2.89
	2500	2500	2500	0.00	± 0.15	± 2.89
	3000	3000	3000	0.00	± 0.15	± 2.89



End of Certificate



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Calibration Cert #: 12 N \ 1417

Certificate of Calibration

Certificate No: AI-171683

Customer Name: A.H. Al Marhoon & Brothers Co.
Address: P. O. Box 42 Safwa 31921, K. S. A.

Product Identification and Specification

Item Submitted: Admixture Scale
Manufacturer: Command Alkon
Model: Spectrum VI
Serial Number: C13124964-AD
Asset Number: N/A
Customer P.O: 0788

Page No: 1 of 2
Received Date: 21 November 2014
Calibration Date: 21 November 2014
Calibration Due Date: 21 March 2015
Received Condition: Out of tolerance
Returned Condition: Adjusted, within the tolerance

Calibration Procedure: ICP-I-071

Summary of Procedure: The Unit Under Test (UUT), a admixture scale was carried-out by build-up test method using known weights with material or other product used during production. The test weights were placed onto the hopper and reading was then taken from the scale / indicator.

Environmental Condition: 26.2°C/53.6%RH

Calibration Results: (see the next page)

Calibration Notes:

Basis of Tolerance : ASTM C94/C94M-09
Max. Capacity : 50,000 g / Min. Division : 25 g
Location : Est Plant, Rahima

Standard Used to Calibrate Instrument:

Description

Test Weights
Digital Thermo-Hygro-Anemometer

ACS-Number

ACS-KH/340
ACS-KH/398

Cal Due Date

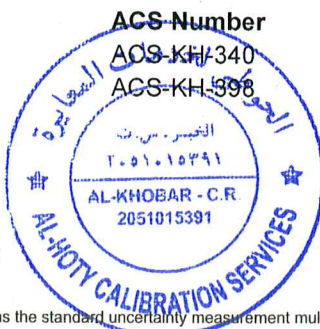
01 March 2015
01 August 2015

Traceability

168989 (NMCC, KSA)
168241 (NIST, USA)

Calibrated By: _____

Calibration Tech. (Stamp)



Approved By: _____

Quality Manager

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Admixture Scale	Certificate Number: AI-171683
Serial Number: C13124964-AD	Page: 2 of 2

Calibration Results

Test Description	Applied Load (g)	UUT Reading (g)		Error (% of F. S.)	Tolerance (% of F. S.)	Uncertainty (g)
		(as found)	(as left)			
Scale Accuracy Test	0	0	0	0.00	± 0.15	± 14.4
	4000	3225	3975	-0.05	± 0.15	± 14.4
	8000	6825	8000	0.00	± 0.15	± 14.4



End of Certificate