



M.A. Selmon Co., Inc

www.maselmon.com

4 Oxford Road, Milford, CT 06460

203-377-3525 203-377-5238 (fax)

January 23, 2017

CDECCA Plant

## Subject: Report for Waste Water Flow Meter

<b>CUSTOMER</b>	Capitol District Energy Center	<b>TRIP DATE</b>	January 18, 2017
	490 Capitol Avenue	<b>TRIP #</b>	NA
	Hartford, CT	<b>FIELD ENG</b>	Devin Yazmer
		<b>DAYS ON SITE</b>	1
		<b>TYPE OF SERVICE</b>	Calibration
<b>APPLICATION</b>	LIQUID	<b>INDUSTRY</b>	Power
<b>PARTS USED</b>	None		

**REASON FOR TRIP:** To calibrate customer's meter.

This report includes:

1. Flow Calibration Survey performed on January 18<sup>th</sup>, 2017.
2. Reference Meter and Device under Test Information.
3. Laboratory Test on the Transducers used for Calibration.
4. Transfer statement verify our Laboratory Calibration.

DUT	F601 Flexim Meter
Total Gallons	Total Gallons
0	3
50	53
100	102
150	152
200	203
250	254 (251 GAL)
.996 % accy	



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**Meter programmed data**

Quantity	Unit	B
Outer Diameter	inch	8.625
Wall thickness	inch	.32
Wall material		Carbon Steel
Roughness	inch	0.000
Fluid		Water
Fluid SOS	m/s	1500
Fluid temp.	°F	85
Transducer S/N		M2N7-3344
Sound paths		2
Volume Units		USgpm
Damping		30
Average GPM		39

**REFERENCE METER (Ref)**

Reference	<b>Flexim</b>
Model	<b>Fluxus F601</b>
Serial #	<b>M2N7-3344</b>

Regards,

*Devin Yazmer*

Devin Yazmer

[devin@maselmon.com](mailto:devin@maselmon.com)



## Calibration Certificate

### Device under test (DUT)

Transducer: M2N7

Ser. No.: 3344

Transmitter: Flexim F601

Ser. No.: 06011644

Pipe ID [inch]: 6.11

Fluid: Water

Temperature: 69.8 °F

Range[Gal/min]: 900

Spec. Accuracy: 1.0% of rate

Offset Allowance: ±0.03 ft/s

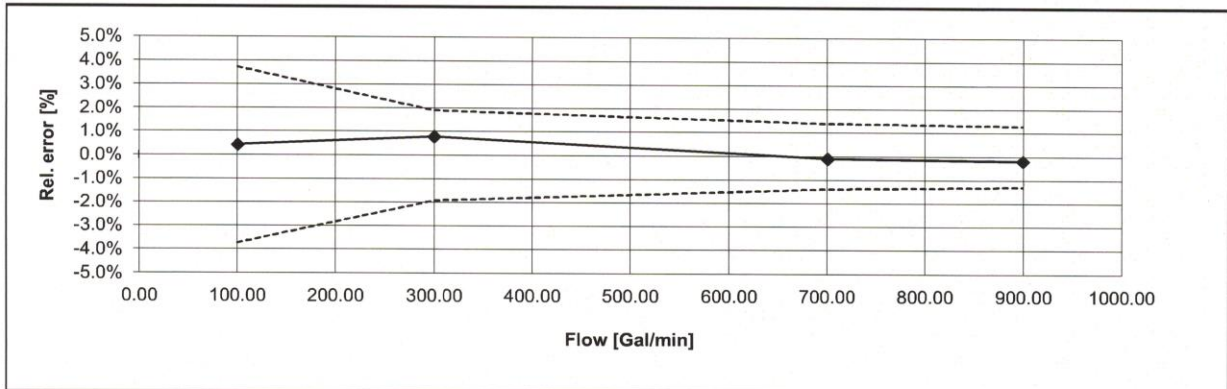
Certificate No.: (US) 20160202-005

### Customer Name & Address:

M.A. Selmon  
4 Oxford Road Suites D9 & D10  
Milford, CT 06460

### Test results

Meas. Point	Meas. Time s	Standard	DUT	measurement error		Limit	Standard	pass/ fail
		Flowrate Qn Gal/min	Flowrate Qp Gal/min	Flowrate (Qp-Qn) Gal/min	Flowrate (Qp-Qn) / Qn %	Flowrate Q Gal/min; %	Velocity v ft/s	
1	60	0.02	0.07	0.05	0.0Gpm	2.7Gpm	0.0	p
2	60	100.10	100.53	0.44	0.4%	3.7%	1.1	p
3	60	299.90	302.23	2.33	0.8%	1.9%	3.3	p
4	60	700.31	699.68	-0.64	-0.1%	1.4%	7.7	p
5	60	899.55	897.97	-1.58	-0.2%	1.3%	9.9	p



The indicated instrument meets the accuracy data published in the specification (passed / failed).

p

The instrument specified above was calibrated against measurement standards which are traceable to the National Institute of Standards and Technologies (NIST).

The calibration was carried out according to the guidelines monitored by our certified QM system in compliance with DIN EN ISO 9001.

Standard: YOKOGAWA AXF100C

Ser. No.: AAXFBC533 714

Rig: PS101

Calibration due: 12.04.2016  
for Calibration-Rig

Certificate No. 15FXM-0004\_1

Date: 02/02/16

Test eng.: Matthew Parody

Signature:

This certificate contains 1 page and should be copied only in its entirety.

FLEXIM AMERICAS Corporation  
250V Executive Drive Edgewood NY 11717  
ph

FB10-810 US Calibration Cert 5 Pts  
03/07/2014

Rev 02

## Transfer Calibration Statement

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### Meters

This document is applicable to all Flexim meters which are delivered with Wet Flow Calibration documentation

### Definition of Calibration

Flexim's calibration facility contains nominal pipe sizes for the calibration of Flexim meters. Two pipes sizes are typically utilized: a 6" stainless steel pipe is used for calibration of M size transducers and a 2" stainless pipe is used for calibration of Q size transducers. Flexim electronics employ digital circuitry that is not subject to drift and has no influence on the instrument's calibration performance. Any adjustment of calibration that might be necessary from the manufacturing of Flexim metering system components is a result of manufacturing tolerances of the transducer. After Wet Flow calibration of the transducer/meter under test a "sensprom" module is created which contains the calibration information. This module is serialized with the transducer serial number. When the meter is received this module is installed into the Flexim meter as per the instructions in the manual. With a portable Flexim meter this module is part of the transducer connector and does not have to be installed.

### Statement of Transferability

When installed on a pipe other than the wet flow calibration pipe, the Flexim meter will maintain its published calibration accuracy within the following guidelines:

1. The true user pipe dimensions are installed correctly.
2. The installation attends to the instruction manual guidelines.

The uncertainty factor of the transfer calibration is 0.412% ref: uncertainty analysis\_33005