M.A. Selmon Co., Inc
www.maselmon.com
4 Oxford Road, Milford, CT 06460
203-377-3525 203-377-5238 (fax)

Miguel Torres
Aquarion Water Company

February 9, 2017

Subject: Report for North Stamford Water Flow Meter

CUSTOMER	Aquarion Water Company	**TRIP DATE**	February 8, 2017
	10 Interlaken Road	**TRIP #**	NA
	Stamford, CT	**FIELD ENG**	Jonathan Christie
		DAYS ON SITE	1
		TYPE OF SERVICE	Startup/Installation
APPLICATION	LIQUID	**INDUSTRY**	Water / Wastewater
PARTS USED	None		

REASON FOR TRIP: Install Flexim meter on North Stamford pipeline.

Introduction
Aquarion required a Flexim meter on their pipeline in North Stamford at Interlaken Road. Meter was to be installed in single-channel mode. Meter also had to be wired to put out a 4/20 signal.

Meter Installation
The Flexim meter was installed successfully. The accuracy of the meter is verified using the Sound speed diagnostic. The sound speeds matched expected values for warm water at ~60 degrees at 1467 m/s.

The 4/20 output is being driven by the A channel.

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Application
The details of the application are as follows:

Meter programmed data

Quantity	Unit	A
Outer Diameter	inch	18.000
Wall thickness	inch	1.125
Wall material		PE
Roughness	inch	0.000
Fluid		Water
Fluid SOS	m/s	1467.6
Fluid temp.	°F	60.1
Transducer S/N		CDK1NZ772794
Sound paths		2
Volume Units		MGD
Damping	s	30

Flow Test Results

A	A
Flow velocity	Volume flow
fps	MGD
4.60	4.02
4.54	3.97
4.56	3.99
4.56	3.98
4.53	3.96

Regards,
Jonathan Christie

Jonathan Christie
jon@maselmon.com

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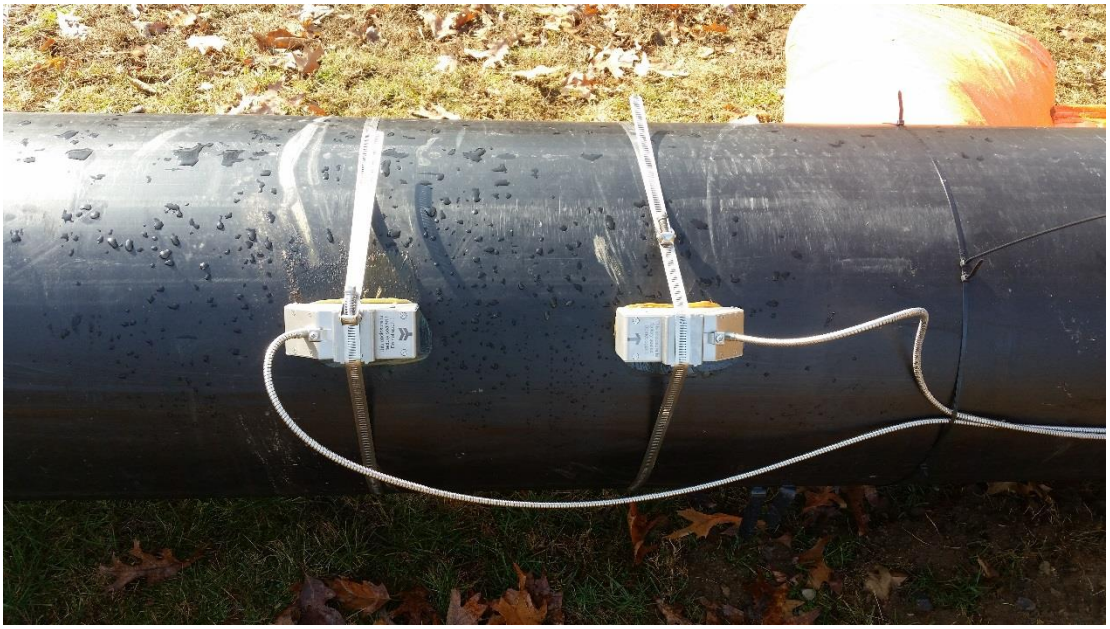
REFERENCE METER (Ref)	
Reference	**Flexim**
Model	**Fluxus F601**
Serial #	**60107936**

Configuration	Example	Typical Uses
2 Sound path		90% of Installations for Liquids, preferred configuration for Easy Applications Note: Transducers should not be installed at top or bottom of horizontal pipes



Calibration Certificate

Device under test (DUT)

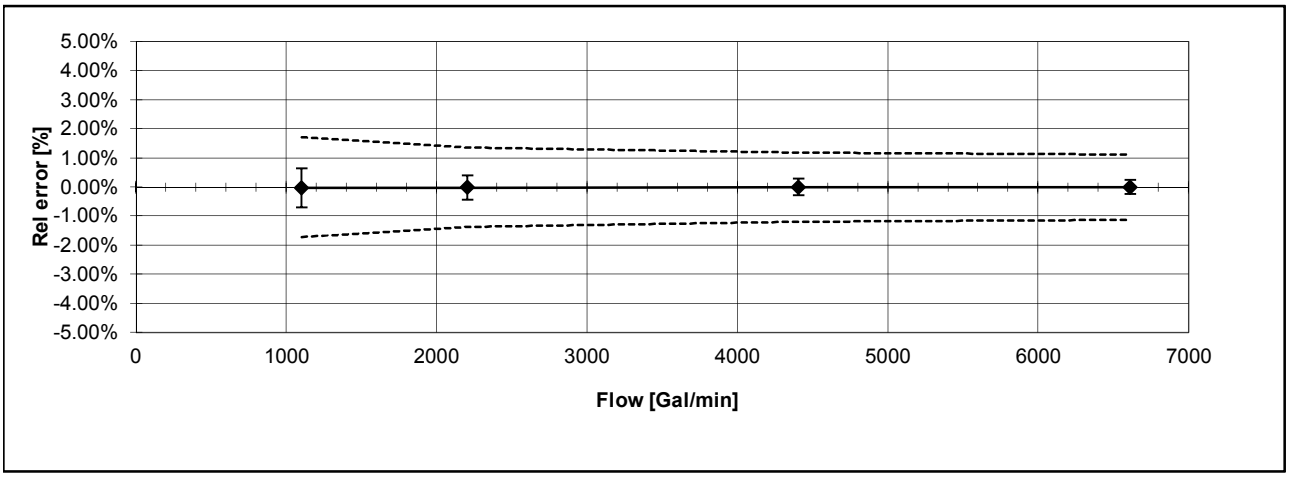
Certificate No.: (US) 20170127-005

Transducer:	CDK1NZ7		**Ser. No.:**	72794	
Transmitter:	Flexim	G721	**Ser. No.:**	Master25	
Pipe ID [inch]:	11.84	**Fluid:**	Water	**Temperature:**	66.2 °F
Range [Gal/min]:	12000.00	**Spec. Accuracy:**	1.0% of rate	**Offset Allowance:**	0.023 ft/s
		Measurement uncertainty (k=2):	0.16% of rate	**Offset uncertainty:**	0.016 ft/s

Customer Name & Address:
Aquarion Water
505 Huntington St. Shelton, CT 06484

Test results

Meas. Point	Meas. time	Standard	DUT	measurement error		Limit	Standard	pass/
		Flowrate	Flowrate	Flowrate	Flowrate	Flowrate	Velocity	fail
		Qn	Qp	(Qp-Qn)	(Qp-Qn) / Qn	Q	v	
	s	Gal/min	Gal/min	Gal/min	%	Gal/min;%	ft/s	
1	16	0.00	0.72	0.72	-	7.88Gpm	0.00	p
2	16	1101.27	1101.03	-0.24	-0.02%	1.7%	3.21	p
3	16	2202.30	2202.03	-0.27	-0.01%	1.4%	6.42	p
4	16	4404.79	4404.75	-0.04	0.00%	1.2%	12.83	p
5	16	6609.49	6609.37	-0.12	0.00%	1.1%	19.25	p



The DUT is within the specification limit when the measurement uncertainty is taken into account (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. Reference meters are calibrated in accordance with ASME MFC-9M, "Measurement of liquid flow in closed conduits by weighing method".

Standard	**Flexim VXX1NHO**	**Ser. No.**	**10350**
Calibration due:	**2/9/2017**	**Certificate No.**	**VXX1NHO10350__20160209**

Aperture Calibration conducted in accordance with Working Procedure AA04_032EN

Date: 1/27/2017 **Test eng.:** Matthew Parody **Signature:**

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