

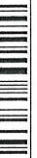
# Micro Motion, Inc.

## Mass Flowmeter Calibration Certificate

1143

13126263

Product Code: CNG050S290NCAAEZZZ      Serial ID: 13126263      Order ID: 10220600      Line: 1.1      Item: 1      Customer Tag:



### Process

Process ID : 5.26010173  
 Process Time : 2016.07.13 17:31:49  
 Process Stand : TSGCNGGSSCN  
 Stand Uncertainty : +/-0.030%  
 Fluid : H2O  
 100% Rate : 38.6 KG/MIN  
 Pickoff : 1  
 Max Rate P/T : 45.61 PSIG/25.9 C

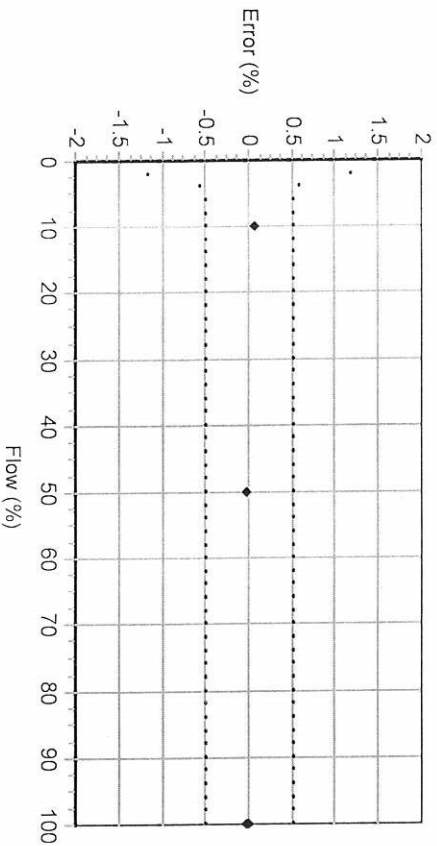


### Detail

### Results

Status : PASS

D1 : 0  
 D2 : 1  
 K1 : 4040.482  
 K2 : 4211.344  
 DT : 4.25  
 FD : 0  
 DTG : 0  
 DFQ1 : 0  
 DFQ2 : 0  
 FlowCal : 138.364.50  
 FFQ : 0  
 FTG : 0  
 DensCal : 04040042114.25  
 FCF : 138.36  
 FT : 4.5



Flow (%)	Flow Rate (kg/min)	Meter Total (kg)	Reference Total (kg)	Error (%)	Specification (±%)
100.0	38.6	29.45502	29.45977	-0.016	0.500
10.0	3.86	2.846364	2.844609	0.062	0.500
50.0	19.3	14.72429	14.72715	-0.019	0.500
100.0	38.6	29.56245	29.55922	0.011	0.500

ZHANG, XIANQING

Technician

This certificate is produced by an electronic data system and is valid without signature.

*by Marlygo Seck*

Product Code	Serial ID	Order ID	Line	Item	Customer Tag
CNG050S290NCAAEZZZ	13126263	10220600	1.1	1	
2700I13ABAEZMZ	3352428	10220600	1.34	1	
PUCX700	33264488				

**Process**

Process ID : 1.33194325  
 Process Time : 2016.08.05 18:40:20  
 Process Stand : SSCB-CONFITG2@SSCB

**Sensor**

D1 : 0  
 D2 : 1  
 DFQ1 : 0  
 DFQ2 : 0  
 DT : 4.25  
 DTG : 0  
 Density Meter Factor : 1  
 Density Press Comp Factor : 0  
 FCF : 138.36  
 FD : 0  
 FFQ : 0  
 FT : 4.5  
 FTG : 0  
 Flow PCP : 0  
 Flow PCF : 0  
 K1 : 4040.482  
 K2 : 4211.344  
 Mass Flow Meter Factor : 1  
 Temperature Cal Factor : 1.00000T.00000  
 Volume Flow Meter Factor : 1

**Units**

Special Mass Time Unit : SEC  
 Special Mass Total Text : NONE  
 Special Volume Base Unit : LITER  
 Special Volume Conv Factor : 1  
 Special Volume Flow Text : NONE  
 Special Volume Time Unit : SEC  
 Special Volume Total Text : NONE  
 Temperature Unit : DEGC  
 Volume Flow Unit : L/MIN

**Assignments**

Event 1 Variable : DENSITY  
 Event 2 Variable : DENSITY  
 Frequency1 Scaling Method : FREQUENCY/FLOW  
 Frequency Variable 1 : MASS FLOW RATE  
 mA1 Variable : MASS FLOW RATE

**Ranges**

Event 1 Setpoint : 0  
 Event 1 Type : LOW ALARM  
 Event 2 Setpoint : 0  
 Event 2 Type : LOW ALARM  
 Frequency1 Active State : ACTIVE HIGH  
 Frequency1 Hertz : 1000  
 Frequency1 Pulses/Unit : 25.90674  
 Frequency1 Rate : 38.6  
 Frequency1 Units/Pulse : 0.0386  
 mA1 LRV : 0  
 mA1 URV : 38.6

**Units**

Density Unit : G/CTCM  
 GSV Flow Unit : SCFM  
 Mass Flow Unit : G/S  
 Pressure Unit : PSI  
 Special GSV Flow Unit Text : NONE  
 Special Mass Base Unit : GRAM  
 Special Mass Conv Factor : 1  
 Special Mass Flow Text : NONE

**Faults**

Frequency1 Fault Behavior : UPSCALE

Faults

Frequency1 Fault Value : 15000  
RS485 Fault Behavior : NONE  
mA1 Fault Behavior : DOWNSCALE  
mA1 Fault Value : 2

Other

Calibration Process ID : 5.26010173  
Core Software Rev : 35  
Density Cutoff : 0.2  
Density Damping : 1.6  
Density High Limit : 5  
Density Low Limit : 0  
Direction : FORWARD  
Fault Dwell Time : 0  
Feature Key : 1  
Flow Damping : 0.8  
HART Device ID : 3266397  
LD Coil : 0  
LD Type : 0  
Mass Flow Cutoff : 1.836  
Pressure Comp Line Pressure : 0  
Pressure Compensation State : OFF  
RS485 Baud : 1200  
RS485 Parity : ODD  
RS485 Protocol : HART  
Slug Duration : 0  
Tag :  
Temperature Damping : 4.8  
Transmitter Software Rev : 66  
Volume Flow Cutoff : 0.11016