Micro Motion, Inc.

Mass Flowmeter Calibration Certificate

15640679

Product Code	Serial ID	Order ID	Line	Item	Customer Tag
CNG050S290NCAAEZZZ	15640679	6198345	1.1	2	SN 26031541 A

Process

Process ID : 9.31278482
Process Time : 2026.01.26 10:13:27
Process Stand : SSF1E@SSCCL:1
Stand Uncertainty : +/-0.030%
Fluid : H20
100% Rate : 38.6 KG/MIN
Pickoff : 1
Max Rate P/T : 41.66 PSIG/21.5 C

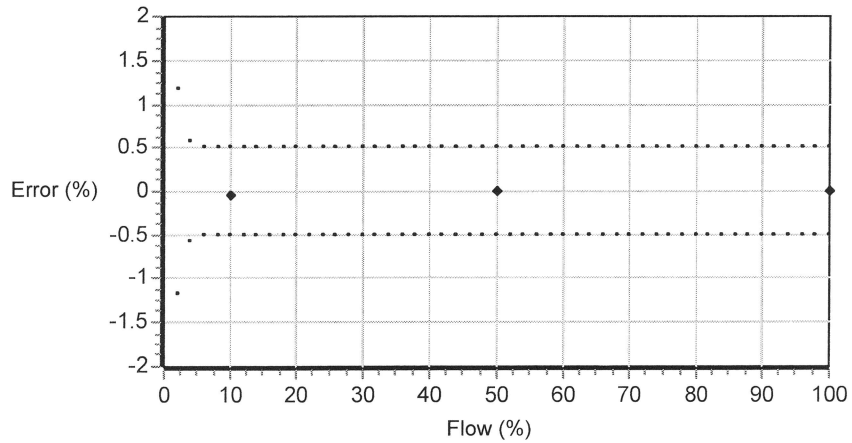
Results

Status : PASS
D1 : 0
D2 : 1
K1 : 4009.36
K2 : 4173.605
DT : 4.25
FD : 0
DTG : 0
DFQ1 : 0
DFQ2 : 0
FlowCal : 142.764.50
FFQ : 0
FTG : 0
DensCal : 04009041744.25
FCF : 142.76
FT : 4.5

MOLDOVAN, SORIN
Technician

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

Detail



Flow (%)	Flow Rate (kg/min)	Meter Total (kg)	Reference Total (kg)	Error (%)	Specification (±%)
100.0	38.6	38.2481	38.24815	0.000	0.500
10.0	3.86	7.869575	7.873727	-0.053	0.500
50.0	19.3	19.74583	19.74762	-0.009	0.500
100.0	38.6	38.29506	38.29515	0.000	0.500

Micro Motion, Inc.

Transmitter Configuration Report

12308796

Product Code	Serial ID	Order ID	Line	Item	Customer Tag
CNG050S290NCAAEZZZ	15640679	6198345	1.1	2	SN 26031541 A
1700I12ABAEZZZ	12308796	6198345	1.32	2	
PUCK700	35073162				

Process

Process ID : 1.39086537
Process Time : 2026.03.20 10:03:54
Process Stand : SSCB-CONFIG2@SSCB

Sensor

D1 : 0
D2 : 1
DFQ1 : 0
DFQ2 : 0
DT : 4.25
DTG : 0
Dens Press Comp Factor : 0
Density Meter Factor : 1
FCF : 142.76
FD : 0
FFQ : 0
FT : 4.5
FTG : 0
Flow Cal Pressure PSI : 30
Flow Press Comp Factor : 0
K1 : 4009.36
K2 : 4173.605
Mass Flow Meter Factor : 1
Volume Flow Meter Factor : 1

Units

Density Unit : G/CM3
GSV Flow Unit : SCFM
Mass Flow Unit : G/SEC
Pressure Unit : POUNDS/SQUARE INCH
Special GSV Base Time Unit : MIN
Special GSV Base Volume Unit : Standard cubic feet
Special GSV Conv Factor : 1
Special GSV Flow Unit Text : NONE
Special GSV Total Text : NONE
Special Mass Base Unit : G
Special Mass Conv Factor : 1
Special Mass Flow Text : NONE

Units

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

MVD Channel Assignments

Channel A Assignment : Milliamp (Primary) Output [#1]

Assignments

Event 1 Variable : Density
Event 2 Variable : Density
Frequency1 Scaling Method : Frequency = Flow
Frequency1 Variable : Mass Flow Rate
mA1 Variable : Mass Flow Rate

Ranges

Event 1 Setpoint : 0
Event 1 Type : Event Low (Event "OFF" if PV > SP)
Event 2 Setpoint : 0
Event 2 Type : Event Low (Event "OFF" if PV > SP)
Frequency1 Active State : Active High
Frequency1 Hertz : 1000
Frequency1 Output Mode : Single
Frequency1 Pulses/Unit : 1.554404
Frequency1 Rate : 643.3333
Frequency1 Units/Pulse : 0.6433333
mA1 LRV : 0
mA1 URV : 643.3333

Faults

Frequency1 Fault Behavior : Upscale

SN 26031541A

Faults

Frequency1 Fault Value	15000
mA1 Fault Behavior	Downscale (Default)
mA1 Fault Value	2

Other

Calibration Process ID	9.31278482
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	2
Flow Damping	0.8
HART Device ID	4963759
LD Type	0
Mass Flow Cutoff	1.836
Pressure Comp Line Pressure	0
Pressure Compensation State	OFF
RS485 Baud	1200 baud
RS485 Parity	Odd
RS485 Protocol	HART
Density Slug Duration	0
Tag	
Temperature Damping	4.8
Transmitter Software Rev	80
Volume Flow Cutoff	0.11016

Tulsa Gas Technologies, Inc.
4809 S. 101st East Ave Tulsa, OK 74146
PHONE: 918-665-2641 FAX: 918-665-2657

4/28/2026

Dispenser Serial Number 26031541
Side A

Micro Motion Transmitter Configuration

Required settings for correct operation of Micro Motion mass flow meter.

Transmitter Model Number:	2700
Sensor Model Number:	CNG050
Transmitter Serial Number:	12308796
Sensor Serial Number	15640679
Flow Calibration Factor:	142.764.50
Flow Units	LB/min

Communication on RS-485

Protocol	Modbus ASCII 7 Bit
Modbus Address	1
Baud Rate	9600
Parity	Even
Stop Bits	1

HART Communication

Superimposed on Primary mA (PV)

Analog Output (4-20 mA)

Analog Variable (PV)	Mass Flow
Lower Range Value	0.2500 lb/min
Upper Range Value	300.000 lb/min
mA Cutoff	0.0000 lb/min

Freq/Rate

Frequency variable (TV)	Mass Flow
Frequency Cutoff	0.2500 lb/min
Pulses per Unit	1000.00000 per lb

Temperature

Temp Units	deg F

Micro Motion, Inc.

Mass Flowmeter Calibration Certificate

15641334

Product Code	Serial ID	Order ID	Line	Item	Customer Tag
CNG050S	15641334				SN26031541B

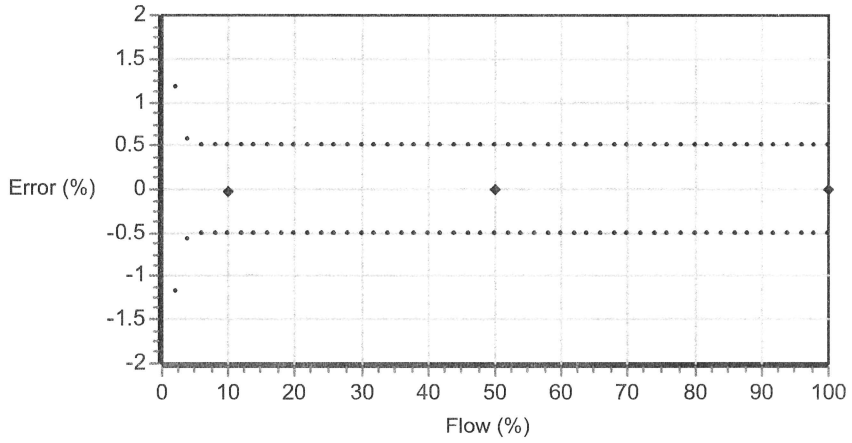
Process

Process ID : 9.31281773
Process Time : 2026.01.30 11:57:32
Process Stand : SSF1E@SSCCL:1
Stand Uncertainty : +/-0.030%
Fluid : H20
100% Rate : 38.6 KG/MIN
Pickoff : 1
Max Rate P/T : 41.61 PSIG/20.7 C

Results

Status : PASS
D1 : 0
D2 : 1
K1 : 4046.711
K2 : 4211.52
DT : 4.25
FD : 0
DTG : 0
DFQ1 : 0
DFQ2 : 0
FlowCal : 142.074.50
FFQ : 0
FTG : 0
DensCal : 04047042124.25
FCF : 142.07
FT : 4.5

Detail



Flow (%)	Flow Rate (kg/min)	Meter Total (kg)	Reference Total (kg)	Error (%)	Specification (±%)
100.0	38.6	38.30149	38.30499	-0.009	0.500
10.0	3.86	7.876137	7.878682	-0.032	0.500
50.0	19.3	19.75065	19.75153	-0.004	0.500
100.0	38.6	38.28798	38.28799	0.000	0.500

MOLDOVAN, SORIN
Technician

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Micro Motion, Inc.

Transmitter Configuration Report

12308795

Product Code	Serial ID	Order ID	Line	Item	Customer Tag
CNG050S290NCAAEZZZ	15641334	6198345	1.1	3	SN 26031541 B
1700I12ABAEZZZ	12308795	6198345	1.32	3	
PUCK700	35073346				

Process

Process ID : 1.39085685
Process Time : 2026.03.19 22:18:29
Process Stand : SSCB-CONFIG1@SSCB

Sensor

D1 : 0
D2 : 1
DFQ1 : 0
DFQ2 : 0
DT : 4.25
DTG : 0
Dens Press Comp Factor : 0
Density Meter Factor : 1
FCF : 142.07
FD : 0
FFQ : 0
FT : 4.5
FTG : 0
Flow Cal Pressure PSI : 30
Flow Press Comp Factor : 0
K1 : 4046.711
K2 : 4211.52
Mass Flow Meter Factor : 1
Volume Flow Meter Factor : 1

Units

Density Unit : G/CM3
GSV Flow Unit : SCFM
Mass Flow Unit : G/SEC
Pressure Unit : POUNDS/SQUARE INCH
Special GSV Base Time Unit : MIN
Special GSV Base Volume Unit : Standard cubic feet
Special GSV Conv Factor : 1
Special GSV Flow Unit Text : NONE
Special GSV Total Text : NONE
Special Mass Base Unit : G
Special Mass Conv Factor : 1
Special Mass Flow Text : NONE

Units

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

MVD Channel Assignments

Channel A Assignment : Milliamp (Primary) Output [#1]

Assignments

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Event 2 Variable : Density
Frequency1 Scaling Method : Frequency = Flow
Frequency1 Variable : Mass Flow Rate
mA1 Variable : Mass Flow Rate

Ranges

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Event 1 Type : Event Low (Event "OFF" if PV > SP)
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Frequency1 Active State : Active High
Frequency1 Hertz : 1000
Frequency1 Output Mode : Single
Frequency1 Pulses/Unit : 1.554404
Frequency1 Rate : 643.3333
Frequency1 Units/Pulse : 0.6433333
mA1 LRV : 0
mA1 URV : 643.3333

Faults

Frequency1 Fault Behavior : Upscale

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4/28/2026

Dispenser Serial Number 26031541
Side B

Micro Motion Transmitter Configuration

Required settings for correct operation of Micro Motion mass flow meter.

Transmitter Model Number:	2700
Sensor Model Number:	CNG050
Transmitter Serial Number:	12308795
Sensor Serial Number	15641334
Flow Calibration Factor:	142.074.50
Flow Units	LB/min

Communication on RS-485

Protocol	Modbus ASCII 7 Bit
Modbus Address	1
Baud Rate	9600
Parity	Even
Stop Bits	1

HART Communication

Superimposed on Primary mA (PV)

Analog Output (4-20 mA)

Analog Variable (PV)	Mass Flow
Lower Range Value	0.2500 lb/min
Upper Range Value	300.000 lb/min
mA Cutoff	0.0000 lb/min

Freq/Rate

Frequency variable (TV)	Mass Flow
Frequency Cutoff	0.2500 lb/min
Pulses per Unit	1000.00000 per lb

Temperature

Temp Units	deg F