Micro Motion, Inc.

Mass Flowmeter Calibration Certificate

15652187

Product Code	Serial ID	Order ID	Line	Item	Customer Tag
CNG050S290NCAAEZZZ	15652187	6491418	1.1	1	S/N 26071558

Process

Process ID : 9.31353307
Process Time : 2026.06.30 20:18:39
Process Stand : TSM2G@SSCCL:1
Stand Uncertainty : +/-0.030%
Fluid : H2O
100% Rate : 38.6 KG/MIN
Pickoff : 1
Max Rate P/T : 34.42 PSIG/26.8 C

Results

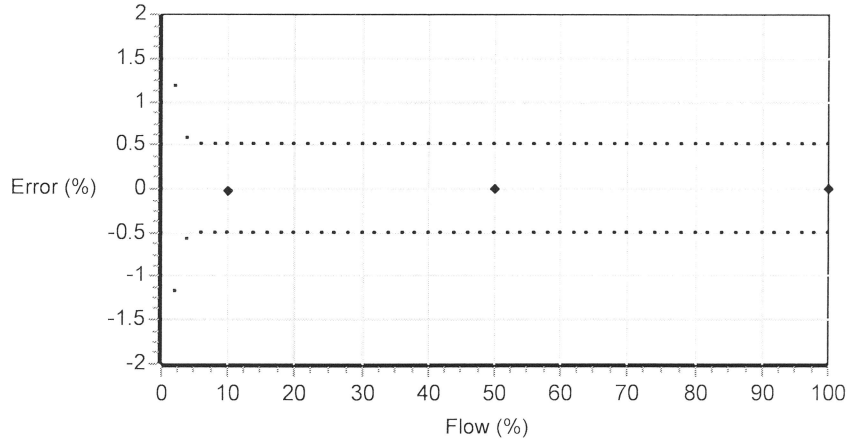
Status : PASS
D1 : 0
D2 : 1
K1 : 4072.915
K2 : 4241.399
DT : 4.25
FD : 0
DTG : 0
DFQ1 : 0
DFQ2 : 0
FlowCal : 140.854.50
FFQ : 0
FTG : 0
DensCal : 04073042414.25
FCF : 140.85
FT : 4.5

By B Carter

ROLAND, VARGA
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	38.2957	38.29169	0.010	0.500
10.0	3.86	11.66453	11.66839	-0.033	0.500
50.0	19.3	19.82914	19.82692	0.011	0.500
100.0	38.6	38.24874	38.24435	0.011	0.500

Micro Motion, Inc.

Transmitter Configuration Report

12316951

Product Code	Serial ID	Order ID	Line	Item	Customer Tag
CNG050S290NCAAEZZZ	15652187	6491418	1.1	1	S/N 26071558
2700I13ABAEZWZ	12316951	6491418	1.31	1	
PUCK800	26332881				

Process

Process ID : 1.39314755
Process Time : 2026.07.21 17:51:46
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 : 140.85
FD : 0
FFQ : 0
FT : 4.5
FTG : 0
Flow Cal Pressure PSI : 30
Flow Press Comp Factor : 0
K1 : 4072.915
K2 : 4241.399
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]
Channel B Power : Active (internally powered)

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

S/N 26071558

Faults

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

Other

Calibration Process ID	9.31353307
Core Software Rev	57
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	5120859
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

8/4/2026

Dispenser Serial Number 26071558

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:	12316951
Sensor Serial Number	15652187
Flow Calibration Factor:	140.854.50
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