

Product Code

CNG050S290NCAAEZZZ

Serial ID

15600020

Order ID

4838762

Line

1.1

Item

2

Customer Tag

25031494A

Process ID : 9.30918960

Process Time : 2024.07.23 17:39:53

Process Stand : SSF1EGSSCCL:1

Stand Uncertainty : +/-0.030%

Fluid : H2O

100% Rate : 38.6 KG/MIN

Pickoff : 1

Max Rate P/T : 41.84 PSIG/21.7 C

Status : PASS

D1 : 0

D2 : 1

K1 : 4096.379

K2 : 4268.197

DT : 4.25

FD : 0

DTG : 0

DFQ1 : 0

DFQ2 : 0

FlowCal : 138.124.50

FFQ : 0

FTG : 0

DensCal : 04096042684.25

FCF : 138.12

FT : 4.5

(BY) Bdeekg

BUNGARDEAN, OVIDIU

Technician

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

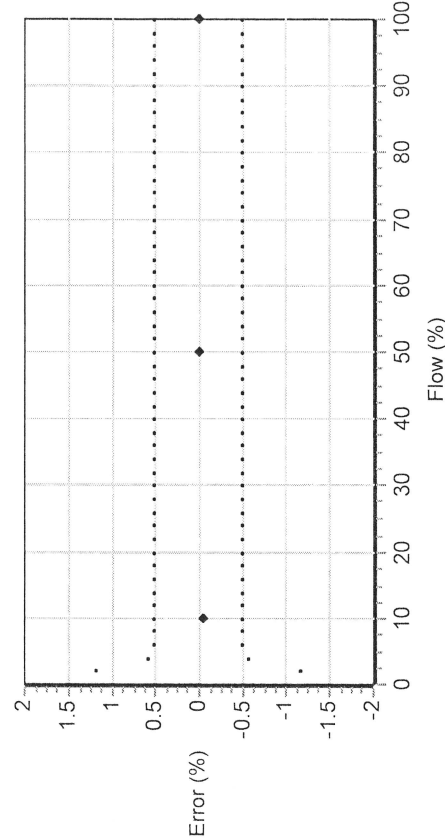
Traceable to one or more of the following National Metrology Institutes: NIM-China, NIST-USA, and VSL-The Netherlands
Micro Motion calibration facilities are accredited in accordance with the recognized International Standard ISO/IEC 17025. This Certificate is not covered by the available ISO/IEC 17025 accreditation.

28.0.0.301 2024.09.03 18:11:01

1 / 1

Process

Detail



Flow (%)	Flow Rate (kg/min)	Meter		Reference		Error (%)	Specification (±%)
		Total (kg)	Total (kg)	Total (kg)	Total (kg)		
100.0	38.6	38.36261	38.36249	38.36261	38.36249	0.000	0.500
10.0	3.86	7.857802	7.861755	7.857802	7.861755	-0.050	0.500
50.0	19.3	19.74487	19.74574	19.74487	19.74574	-0.004	0.500
100.0	38.6	38.29635	38.29642	38.29635	38.29642	0.000	0.500

Results

Transmitter Configuration Report				12269671	
Product Code		Serial ID	Order ID	Line	Item Customer Tag
CNG050S290NCAAEZZZ		15600020	4838762	1.1	2
2700I13ABAEZWZ		12269671	4838762	1.33	2
PUCK700		34736282			
Process					
Process ID : 1.38111310					
Process Time : 2024.09.03 20:11:21					
Process Stand : SSCB-CONFIG2@SSCB					
Sensor		Units			
D1 : 0		Special Mass Time Unit : SEC			
D2 : 1		Special Mass Total Text : NONE			
DFQ1 : 0		Special Volume Base Unit : L			
DFQ2 : 0		Special Volume Conv Factor : 1			
DT : 4.25		Special Volume Flow Text : NONE			
DTG : 0		Special Volume Time Unit : SEC			
Dens PCF : 0		Special Volume Total Text : NONE			
Density Meter Factor : 1		Temperature Unit : C			
FCF : 138.12		Volume Flow Unit : L/MIN			
FD : 0					
FFQ : 0					
FT : 4.5					
FTG : 0					
Flow PCP : 30					
Flow PCF : 0					
K1 : 4096.379					
K2 : 4268.197					
Mass Flow Meter Factor : 1					
Volume Flow Meter Factor : 1					
Units					
Density Unit : G/CM3		Event 1 Setpoint : 0			
GSV Flow Unit : SCFM		Event 1 Type : Event Low (Event "OFF" if PV > SP)			
Mass Flow Unit : G/SEC		Event 2 Setpoint : 0			
Pressure Unit : POUNDS/SQUARE INCH		Event 2 Type : Event Low (Event "OFF" if PV > SP)			
Special GSV Base Time Unit : MIN		Frequency1 Active State : Active High			
Special GSV Base Volume Unit : Standard cubic feet		Frequency1 Hertz : 1000			
Special GSV Conv Factor : 1		Frequency1 Output Mode : Single			
Special GSV Flow Unit Text : NONE		Frequency1 Pulses/Unit : 1.554404			
Special GSV Total Text : NONE		Frequency1 Rate : 643.3333			
Special Mass Base Unit : G		Frequency1 Units/Pulse : 0.64333333			
Special Mass Conv Factor : 1		mA1 LRV : 0			
Special Mass Flow Text : NONE		mA1 URV : 643.3333			
Faults					
Units					
28.0.0.305 2024.09.03 21:00:59 1/2					

Faults

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

Other

Calibration Process ID : 9.30918960
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 : 4730539
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
Slug Duration : 0
Tag :
Temperature Damping : 4.8
Transmitter Software Rev : 80
Volume Flow Cutoff : 0.11016

25031494A



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

3/24/2025

Dispenser Serial Number 25031494

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: 12269671
Sensor Serial Number: 15600020
Flow Calibration Factor: 138.124.50
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

Product CodeCNG050S290NCAAEZZZSerial ID15600489Order ID4838762Line1.1Item3Customer Tag25031494B

Process

Process ID : 9.30923502

Process Time : 2024.07.25 18:33:23

Process Stand : SSF1E@SSCCL:1

Stand Uncertainty : +/-0.030%

Fluid : H2O

100% Rate : 38.6 KG/MIN

Pickoff : 1

Max Rate P/T : 41.81 PSIG/21.5 C

Results

Status : PASS

D1 : 0

D2 : 1

K1 : 4066.722

K2 : 4238.186

DT : 4.25

FD : 0

DTG : 0

DFQ1 : 0

DFQ2 : 0

FlowCal : 138.954.50

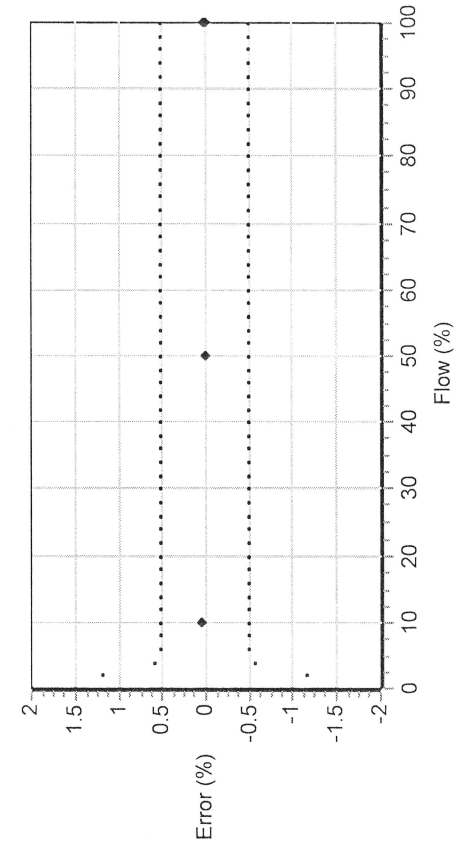
FFQ : 0

FTG : 0

DensCal : 04067042384.25

FCF : 138.95

FT : 4.5



Flow (%)	Flow Rate (kg/min)	Meter		Reference		Error (%)	Specification (±%)
		Total (kg)	Total (kg)	Total (kg)	Total (kg)		
100.0	38.6	38.32658	38.32033	38.32033	38.32033	0.016	0.500
10.0	3.86	7.887395	7.883757	7.883757	7.883757	0.046	0.500
50.0	19.3	19.76642	19.7657	19.7657	19.7657	0.004	0.500
100.0	38.6	38.2526	38.25723	38.25723	38.25723	-0.012	0.500

Product Code		Serial ID	Order ID	Line	Item	Customer Tag
CNG050S290NCAAEZZZ		15600489	4838762	1.1	3	25031494B
2700I13ABAEZWZ		12269670	4838762	1.33	3	
PUCK700		26312465				
Process						
Process ID : 1.38111248						
Process Time : 2024.09.03 19:36:12						
Process Stand : SSCB-CONFIG1@SSCB						
Sensor						
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						
Frequency Variable 1 : 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						
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						
Density Unit : G/CM3						
GSV Flow Unit : SCFM						
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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						
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						
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Special GSV Total Text : NONE						
Special Mass Base Unit : G						
Special Mass Conv Factor : 1						
Special Mass Flow Text : NONE						
Units						
Density Unit : G/CM3						

Faults

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

Other

Calibration Process ID : 9.30923502
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 : 4729896
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
Slug Duration : 0
Tag :
Temperature Damping : 4.8
Transmitter Software Rev : 80
Volume Flow Cutoff : 0.11016



Tulsa Gas Technologies, Inc.
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PHONE: 918-665-2641 FAX: 918-665-2657

3/24/2025

Dispenser Serial Number 25031494

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: 12269670
Sensor Serial Number: 15600489
Flow Calibration Factor: 138.954.50
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