

Product Code

CNG050S290NCAAEZZZ

PUCK700

Serial ID

15388024

34736304

Order ID

4838762

Line

1.1

1

Item

Customer Tag

25031493A

Process

Detail

Process ID : 1.38111416

Process Time : 2024.09.03 22:02:05

Process Stand : TSM1C@SSCB:1

Stand Uncertainty : +/-0.030%

Fluid : H2O

100% Rate : 38.6 KG/MIN

Pickoff : 1

Max Rate P/T : 29.91 PSIG/22 C

Flow Rate (kg/min)

Flow (%)

Error (%)

Flow (%)

Results

Status : PASS			
D1 : 0			
D2 : 1			
K1 : 4091.106			
K2 : 4263.318			
DT : 4.25			
FD : 0			
DTG : 0			
DFQ1 : 0			
DFQ2 : 0			
FlowCal : 140.384.50			
FFQ : 0			
FTG : 0			
DensCal : 04091042634.25			
FCF : 140.38			
FT : 4.5			

Flow (%)	Flow Rate (kg/min)	Meter Total (kg)	Reference Total (kg)	Error (%)	Specification (±%)
100.0	38.6	38.02177	38.05915	-0.098	0.500
10.0	3.86	5.727815	5.728177	-0.006	0.500
50.0	19.3	19.15605	19.1558	0.001	0.500
100.0	38.6	37.97166	38.01143	-0.105	0.500

B. Dahaf

BINAYA DAHAL

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.

1 / 1

Transmitter Configuration Report				12269672		
Product Code	Serial ID	Order ID	Line	Item	Customer Tag	
CNG050S290NCAAEZZZ	15388024	4838762	1.1	1	25031493A	
2700I13ABAEZWZ	12269672	4838762	1.33	1		
PUCK700	34736304					
Process						
Process ID : 1.38111978						
Process Time : 2024.09.04 7:43:00						
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 : 140.38	Volume Flow Unit : L/MIN				
	FD : 0					
	FFQ : 0					
	FT : 4.5					
	FTG : 0					
	Flow PCP : 30					
	Flow PCF : 0					
	K1 : 4091.106					
	K2 : 4263.318					
	Mass Flow Meter Factor : 1					
	Volume Flow Meter Factor : 1					
Units	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					
	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					
	28.0.0.305					
	2024.09.04 7:48:00					
	1 / 2					

Faults

25031493A

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

Other

Calibration Process ID : 1.38111416
Core Software Rev : 35
Density Cutoff : 0.2
Density Damping : 0.8
Density High Limit : 5
Density Low Limit : 0
Direction : FORWARD
Fault Dwell Time : 0
Feature Key : 1
Flow Damping : 0.8
HART Device ID : 4730336
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 : 2.4
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

3/13/2025

Dispenser Serial Number 25031493

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: 12269672
Sensor Serial Number: 15388024
Flow Calibration Factor: 140.384.50
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 Code

CNG050S290NCAAEZZZ

Serial ID

15600484

Order ID

4838762

Line Item

1.1 4

Customer Tag

25031493B

Process

Process ID : 9.30922761
Process Time : 2024.07.25 13:54:48
Process Stand : SSF1E@SSCCL:1
Stand Uncertainty : +/-0.030%
Fluid : H2O
100% Rate : 38.6 KG/MIN
Pickoff : 1
Max Rate P/T : 41.74 PSIG/21.5 C

Results

Status : PASS

D1 : 0
D2 : 1
K1 : 4079.894
K2 : 4250.998
DT : 4.25
FD : 0
DTG : 0
DFQ1 : 0
DFQ2 : 0
FlowCal : 138.794.50
FFQ : 0
FTG : 0
DensCal : 04080042514.25
FCF : 138.79
FT : 4.5

(By) *Andre Szabo*
ANDREI SZABO

Technician

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

Product Code	Serial ID	Order ID	Line	Item	Customer Tag
CNG050S290NCAAEZZZ	15600484	4838762	1.1	4	25031493B
2700I13ABAEZWZ	12269669	4838762	1.33	4	
PUCK700	34736388				

Process

Process ID : 1.381111524
Process Time : 2024.09.03 22:27:49
Process Stand : SSCB-CONFIG1@SSCB

Sensor

Units

D1 : 0
D2 : 1
DFQ1 : 0
DFQ2 : 0
DT : 4.25
DTG : 0
Dens PCF : 0
Density Meter Factor : 1
FCF : 138.79
FD : 0
FFQ : 0
FT : 4.5
FTG : 0
Flow PCP : 30
Flow PCF : 0
K1 : 4079.894
K2 : 4250.998
Mass Flow Meter Factor : 1
Volume Flow Meter Factor : 1

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 : 0.64333333
mA1 LRV : 0
mA1 URV : 643.3333

Faults

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

Micro Motion, Inc.		Transmitter Configuration Report	12269669
25031493B			
Faults			
Frequency1 Fault Behavior : Upscale			
Frequency1 Fault Value : 15000			
mA1 Fault Behavior : Downscale (Default)			
mA1 Fault Value : 2			
Other			
Calibration Process ID : 9.30922761			
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 : 4730641			
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			
28.0.0.305			2024.09.03 22:44:11 2 / 2



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3/13/2025

Dispenser Serial Number 25031493

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: 12269669
Sensor Serial Number: 15600484
Flow Calibration Factor: 138.794.50
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