

Product CodeCNG050S290NCAAEZZZSerial ID15601309Order ID4876779Line1.1Item1Customer Tag2502-1492-A

Process

Process ID : 9.30948229

Process Time : 2024.08.09 16:28:54

Process Stand : SSF1E@SSCCL:1

Stand Uncertainty : +/-0.030%

Fluid : H2O

100% Rate : 38.6 KG/MIN

Pickoff : 1

Max Rate P/T : 41.69 PSIG/21.7 C

Results

Status : PASS

D1 : 0

D2 : 1

K1 : 4085.413

K2 : 4257.322

DT : 4.25

FD : 0

DTG : 0

DFQ1 : 0

DFQ2 : 0

FlowCal : 139.054.50

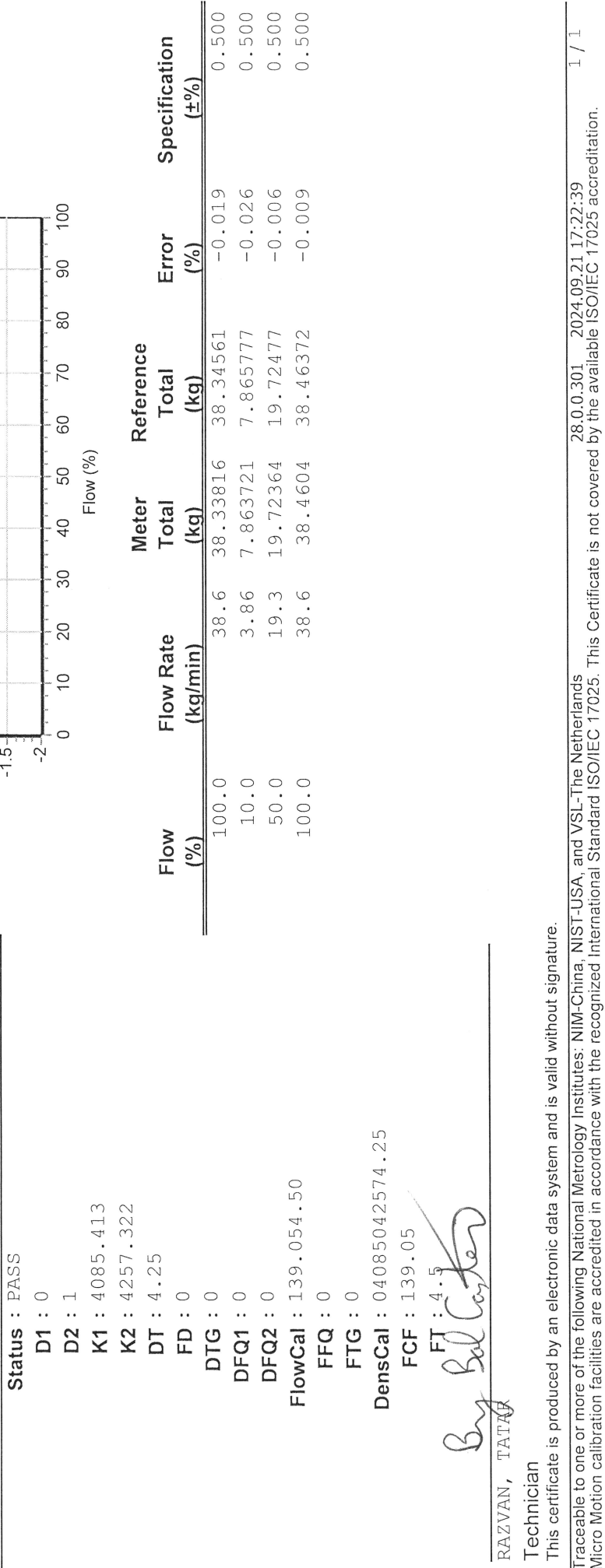
FFQ : 0

FTG : 0

DensCal : 04085042574.25

FCF : 139.05

FT : 4.5



Micro Motion, Inc.

Transmitter Configuration Report

12271073

Product Code

CNG050S290NCAAEZZZ

2700113ABAEZWZ

PUCK700

Serial ID

15601309

12271073

34718527

Order ID

4876779

4876779

Line

1.1

1.33

Item

1

1

Customer Tag

25021492A

Process

Process ID : 1.38147411

Process Time : 2024.09.23 5:47:24

Process Stand : SSCB-CONFIG2@SSCB

Sensor

D1 : 0

D2 : 1

DFQ1 : 0

DFQ2 : 0

DT : 4.25

DTG : 0

Dens PCF : 0

Density Meter Factor : 1

FCF : 139.05

FD : 0

FFQ : 0

FT : 4.5

FTG : 0

Flow PCP : 30

Flow PCF : 0

K1 : 4085.413

K2 : 4257.322

Mass Flow Meter Factor : 1

Volume Flow Meter Factor : 1

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 : 0.64333333

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

28.0.0.305

2024.09.23 5:54:40

1 / 2

Micro Motion, Inc.		Transmitter Configuration Report		12271073	
25021492A					
Faults					
Frequency1 Fault Behavior : Upscale					
Frequency1 Fault Value : 15000					
mA1 Fault Behavior : Downscale (Default)					
mA1 Fault Value : 2					
Other					
Calibration Process ID : 9.30948229					
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 : 4672641					
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					
28.0.0.0.305		2024.09.23 5:54:40		2 / 2	



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

2/17/2025

Dispenser Serial Number 25021492

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: 34718527
Sensor Serial Number: 15601390
Flow Calibration Factor: 139.054.50
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

15601314

Product Code

CNG050S290NCAAEZZZ

Serial ID

15601314

Order ID

4876779

Line

1.1

Item

2

Customer Tag

250214926

Process

Process ID : 9.30947102

Process Time : 2024.08.08 17:22:48

Process Stand : SSF1E@SSCCL:1

Stand Uncertainty : +/-0.030%

Fluid : H2O

100% Rate : 38.6 KG/MIN

Pickoff : 1

Max Rate P/T : 41.73 PSIG/21.3 C

Results

Status : PASS

D1 : 0

D2 : 1

K1 : 4063.762

K2 : 4233.2

DT : 4.25

FD : 0

DTG : 0

DFQ1 : 0

DFQ2 : 0

FlowCal : 139.724.50

FFQ : 0

FTG : 0

DensCal : 04064042334.25

FCF : 139.72

FT : 4.5

Detail

Error (%)

Flow (%)

Flow (%)	Flow Rate (kg/min)	Meter Total (kg)	Reference Total (kg)	Error (%)	Specification (±%)
100.0	38.6	38.3684	38.36751	0.002	0.500
10.0	3.86	7.874657	7.883793	-0.116	0.500
50.0	19.3	19.7899	19.78981	0.000	0.500
100.0	38.6	38.30921	38.30946	-0.001	0.500

RAZVAN, TATAR

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 2024.09.22 6:38:24

1 / 1

Micro Motion, Inc.

Transmitter Configuration Report

12271072

Product Code	Serial ID	Barcode	Order ID	Line	Item	Customer Tag
CNG050S29NCAAEZZZ	15601314		4876779	1.1	2	250214928
2700I13ABAEZWZ	12271072		4876779	1.33	2	
PUCK700	34718694					

Process

Process ID : 1.38147558
Process Time : 2024.09.23 7:35:44
Process Stand : SSCB-CONFIG1@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 : 139.72	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
Frequency Variable 1 :	Mass Flow Rate
mA1 Variable :	Mass Flow Rate

Ranges

	Units
Density Unit : G/CM ³	
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	
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	

Faults

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

Other

Calibration Process ID : 9.30947102
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 : 4672449
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

25021492B



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2/17/2025

Dispenser Serial Number 25021492

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: 34718694
Sensor Serial Number: 15601314
Flow Calibration Factor: 139.724.50
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