

Product Code

CNG050S290NCAAEZZZ

PUCK700

Serial ID

15392239

34735396

Order ID

4940056

Line

1.1

Item

2

Customer Tag

25051501

Process

Process ID : 1.38193576

Process Time : 2024.10.21 10:50:30

Process Stand : TSM1A@SSCB:1

Stand Uncertainty : +/-0.030%

Fluid : H2O

100% Rate : 38.6 KG/MIN

Pickoff : 1

Max Rate P/T : 19.57 PSIG/21.4 C

Results

Status : PASS

D1 : 0

D2 : 1

K1 : 4028.015

K2 : 4198.175

DT : 4.25

FD : 0

DTG : 0

DFQ1 : 0

DFQ2 : 0

FlowCal : 141.224.50

FFQ : 0

FTG : 0

DensCal : 04028041984.25

FCF : 141.22

FT : 4.5

Neil Wilson

WILSON, NEIL

Technician

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

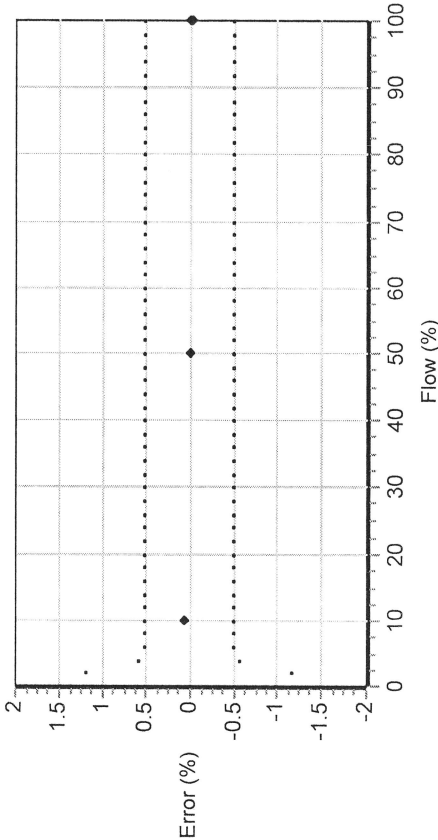
Traceable to one or more of the following National Metrology Institutes: NIM-China, NIST-USA, and VSL-The Netherlands

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

2024.10.21 10:50:34

1 / 1



Flow (%)	Flow Rate (kg/min)		Reference Total (kg)		Error (%)		Specification (±%)
	Meter Total (kg)	Flow Rate (kg/min)	Meter Total (kg)	Reference Total (kg)	Total (kg)	Error (%)	
100.0	36.85637	38.6	36.85637	36.85706	36.85706	-0.002	0.500
10.0	4.013216	3.86	4.013216	4.01084	4.01084	0.059	0.500
50.0	19.27932	19.3	19.27932	19.27781	19.27781	0.008	0.500
100.0	36.85322	38.6	36.85322	36.85912	36.85912	-0.016	0.500

25051501

Product Code	Serial ID	Order ID	Line	Item	Customer Tag
CNG050S290NCAAEZZZ	15392239	4940056	1.1	2	
2700I13ABAEZWZ	12272959	4940056	1.33	2	
PUCK700	34735396				

Process

Process ID : 1.38196573
Process Time : 2024.10.22 10:27:50
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 : 141.22
FD : 0
FFQ : 0
FT : 4.5
FTG : 0
Flow PCP : 30
Flow PCF : 0
K1 : 4028.015
K2 : 4198.175
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 : 0.6433333
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

Faults

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

Other

Calibration Process ID : 1.38193576
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 : 4763121
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

75057501



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

5/15/2025

Dispenser Serial Number 25051501

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: 12272959
Sensor Serial Number: 15392239
Flow Calibration Factor: 141.224.50
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