

Product Code

CNG050S290NCAAEZZZ

Serial ID

15600487

Order ID

4838629

Line Item

1.1 1

Customer Tag

24121486A

Process

Process ID : 9.30922760
Process Time : 2024.07.25 13:54:48
Process Stand : SSFIE@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 : 4064.199
K2 : 4235.108
DT : 4.25
FD : 0
DTG : 0
DFQ1 : 0
DFQ2 : 0
FlowCal : 139.154.50
FFQ : 0
FTG : 0
DensCal : 04064042354.25
FCF : 139.15
FT : 4.5

Andrej Szabo
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.

Product Code

CNG050S290NCAAEZZZ

2700I13ABAEZWZ

PUCK700

Serial ID

15600487

12269678

34736376



Order ID

4838629

4838629

Line Item

1.1 1

1.33 1

Customer Tag

24121486A

Process

Process ID : 1.38111360

Process Time : 2024.09.03 21:13:31

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 : 139.15

FD : 0

FFQ : 0

FT : 4.5

FTG : 0

Flow PCP : 30

Flow PCF : 0

K1 : 4064.199

K2 : 4235.108

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

Faults

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

Other

Calibration Process ID : 9.30922760
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 : 4730550
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

24121486A



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

12/16/2024

Dispenser Serial Number 24121486

Front Left

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: 12269678

Sensor Serial Number 15600487

Flow Calibration Factor: 139.154.50

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

15599744

Order ID

4838629

Line Item

1.1 2

Customer Tag

24/2/486B

Process

Process ID : 9.309222609

Process Time : 2024.07.25 12:39:13

Process Stand : SSF1E@SSCCL:1

Stand Uncertainty : +/-0.030%

Fluid : H2O

100% Rate : 38.6 KG/MIN

Pickoff : 1

Max Rate P/T : 41.76 PSIG/21.6 C

Results

Status : PASS

D1 : 0

D2 : 1

K1 : 4071.816

K2 : 4244.17

DT : 4.25

FD : 0

DTG : 0

DFQ1 : 0

DFQ2 : 0

FlowCal : 138.144.50

FFQ : 0

FTG : 0

DensCal : 04072042444.25

FCF : 138.14

FT : 4.5

ANDREI SZABO

Technician

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28.0.0.301 2024.09.03 19:09:51

1 / 1

Product Code		Serial ID	Order ID	Line	Item	Customer Tag	
CNG050S290NCAAEZZZ		15599744	4838629	1.1	2	24/21486B	
2700I13ABAEZWZ		12269677	4838629	1.33	2		
PUCK700		34736105					
Process							
Process ID : 1.38111388							
Process Time : 2024.09.03 21:26:22							
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 : 138.14							
FD : 0							
FFQ : 0							
FT : 4.5							
FTG : 0							
Flow PCP : 30							
Flow PCF : 0							
K1 : 4071.816							
K2 : 4244.17							
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							
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)							
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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							

24121486B

Faults

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

Other

Calibration Process ID : 9.30922609
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 : 4730270
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



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12/16/2024

Dispenser Serial Number 24121486

Front Right

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: 12269677

Sensor Serial Number 15599744

Flow Calibration Factor: 138.144.50

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