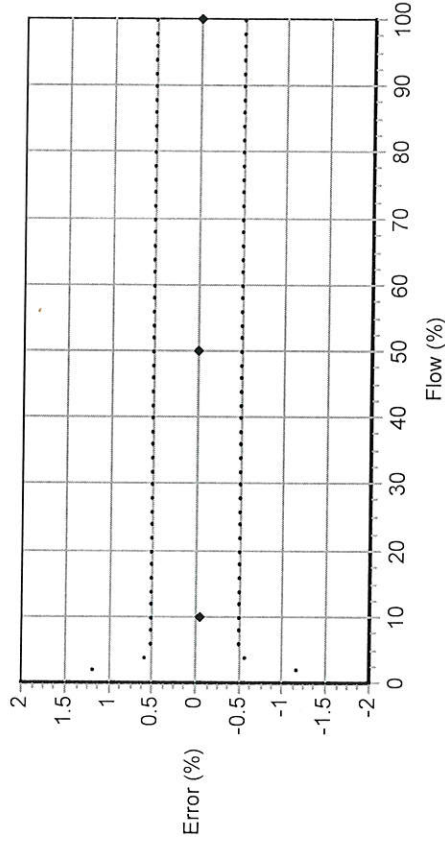


Product Code CNG050S290NCAAEEZZZ
Serial ID 13197445
Order ID 10285247
Line 2.1
Item 4
Customer Tag 18041215A
PUCK700 33467027

Process

Process ID : 1.34391560
Process Time : 2018.03.30 20:24:00
Process Stand : TSMIC@SSCB:1
Stand Uncertainty : +/-0.030%
Fluid : H2O
100% Rate : 38.6 KG/MIN
Pickoff : 1
Max Rate P/T : 34.55 PSIG/23.6 C

Detail

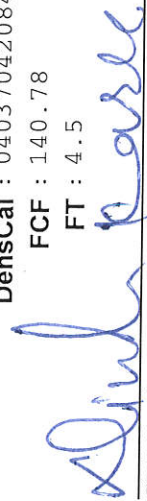


Results

Status : PASS
D1 : 0
D2 : 1
K1 : 4037.175
K2 : 4208.228
DT : 4.25
FD : 0
DTG : 0
DFQ1 : 0
DFQ2 : 0
FlowCal : 140.784.50
FFQ : 0
FTG : 0

Flow (%)	Flow Rate (kg/min)	Meter Total (kg)	Reference Total (kg)	Error (%)	Specification (±%)
100.0	38.6	39.33018	39.33256	-0.006	0.500
10.0	3.86	5.768448	5.771333	-0.050	0.500
50.0	19.3	19.3817	19.3791	0.013	0.500
100.0	38.6	38.82195	38.8212	0.002	0.500

DensCal : 04037042084.25
FCF : 140.78
FT : 4.5


 SUNIL SHRESTHA
 Technician

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Micro Motion, Inc.

Transmitter Configuration Report

3401775

Product Code	Serial ID	Order ID	Line	Item	Customer Tag
CNG050S290NCAAEZZZ	13197445	10285247	2.1	4	18041215A
2700I13ABAEZWW	3401775	10285247	2.36	4	
PUCK700	33467027				

Process

Process ID : 1.34392068
Process Time : 2018.03.30 21:54:52
Process Stand : SSCB-CONFIG1@SSCB

Sensor

D1 : 0
D2 : 1
DFQ1 : 0
DFQ2 : 0
DT : 4.25
DTG : 0
Density Meter Factor : 1
FCF : 140.78
FD : 0
FFQ : 0
FT : 4.5
FTG : 0
Flow PCP : 30
Flow PCF : 0
K1 : 4037.175
K2 : 4208.228
Mass Flow Meter Factor : 1
Volume Flow Meter Factor : 1

Units

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 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

Frequency1 Fault Behavior : Upscale
Frequency1 Fault Value : 15000

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
Special Mass Time Unit : SEC

Faults

mA1 Fault Behavior : Downscale (Default)
mA1 Fault Value : 2

Other

Calibration Process ID : 1.34391560
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 : 3496507
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

18041215A



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

4/30/2018

Dispenser Serial Number 18041215

Side A

Micro Motion Transmitter Configuration

Required settings for correct operation of Micro Motion mass flow meter.

Transmitter Model Number: 2700
Sensor Model Number: CNG095
Transmitter Serial Number: 3401775
Sensor Serial Number 13197445
Flow Calibration Factor: 140.784.50
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 00000 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

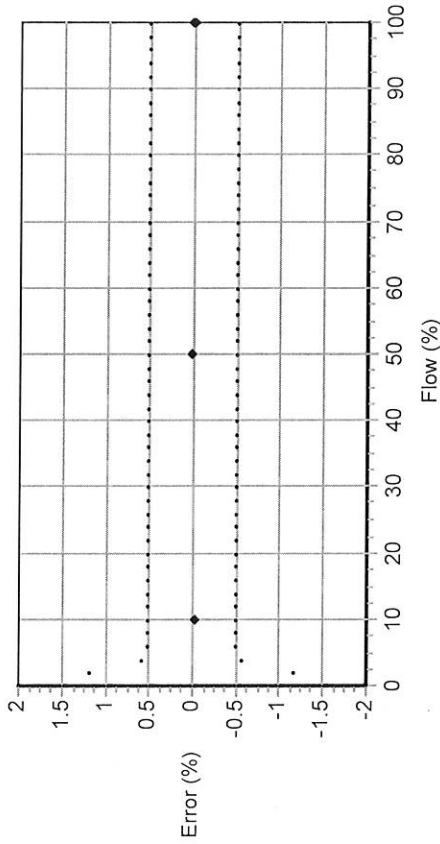
Temp Units deg F

Product Code: CNG050S290NCAAEEZZZ Serial ID: 13201994 Order ID: 10285247 Line: 2.1 Item: 1 Customer Tag: 18041215B

Process

Process ID : 5.26886888
 Process Time : 2018.03.03 10:01:07
 Process Stand : TSGCNG@SSCN:1
 Stand Uncertainty : +/-0.030%
 Fluid : H2O
 100% Rate : 38.6 KG/MIN
 Pickoff : 1
 Max Rate P/T : 33.7 PSIG/25.9 C

Detail



Results

Status : PASS

D1 : 0
 D2 : 1
 K1 : 4086.688
 K2 : 4260.004
 DT : 4.25
 FD : 0
 DTG : 0
 DFQ1 : 0
 DFQ2 : 0
 FlowCal : 136.724.50
 FFQ : 0
 FTG : 0
 DensCal : 04087042604.25
 FCF : 136.72
 FT : 4.5

Flow (%)	Flow Rate (kg/min)	Meter Total (kg)	Reference Total (kg)	Error (%)	Specification (±%)
100.0	38.6	39.71297	39.71057	0.006	0.500
10.0	3.86	3.879686	3.880424	-0.019	0.500
50.0	19.3	19.66155	19.65717	0.022	0.500
100.0	38.6	39.19187	39.18561	0.016	0.500

By: 
 XIAO, JIGUANG
 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	13201994	10285247	2.1	1	
2700I13ABAEZWW	3401729	10285247	2.36	1	
PUCK700	33452459				

1804125B

Process

Process ID : 1.34392968
 Process Time : 2018.04.02 10:59:23
 Process Stand : SSCB-CONFIG1@SSCB

Sensor

D1 : 0
 D2 : 1
 DFQ1 : 0
 DFQ2 : 0
 DT : 4.25
 DTG : 0
 Density Meter Factor : 1
 FCF : 136.72
 FD : 0
 FFQ : 0
 FT : 4.5
 FTG : 0
 Flow PCP : 30
 Flow PCF : 0
 K1 : 4086.688
 K2 : 4260.004
 Mass Flow Meter Factor : 1
 Volume Flow Meter Factor : 1

Units

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 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)

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
 Special Mass Time Unit : SEC

Faults

Frequency1 Fault Behavior : Upscale
 Frequency1 Fault Value : 15000

Faults

mA1 Fault Behavior : Downscale (Default)
mA1 Fault Value : 2

Other

Calibration Process ID : 5.26886888
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 : 3496610
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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4/30/2018

Dispenser Serial Number 18041215

Side B

Micro Motion Transmitter Configuration

Required settings for correct operation of Micro Motion mass flow meter.

Transmitter Model Number: 2700
Sensor Model Number: CNG095
Transmitter Serial Number: 3401729
Sensor Serial Number 13201994
Flow Calibration Factor: 136.724.50
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 00000 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