

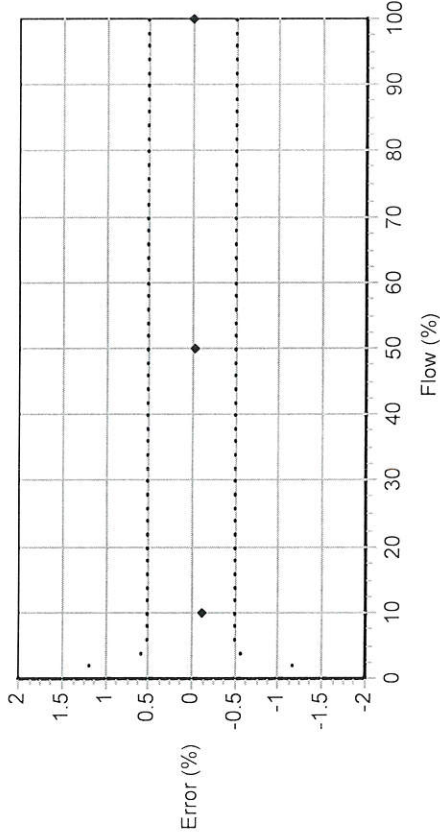
Product Code CNG050S290NCAAEEZZZ Serial ID 13191323 Order ID 10274706 Line 1.1 Item 1 Customer Tag 18011202

Process ID 10274706 Line 1.1 Item 1 Customer Tag 18011202

**Process**

**Detail**

Process ID : 5.26741636  
 Process Time : 2017.12.02 10:17:51  
 Process Stand : TSGCNG@SSCN:1  
 Stand Uncertainty : +/-0.030%  
 Fluid : H2O  
 100% Rate : 38.6 KG/MIN  
 Pickoff : 1  
 Max Rate P/T : 48.48 PSIG/25 C



**Results**

Status : PASS

D1 : 0  
 D2 : 1  
 K1 : 4066.389  
 K2 : 4238.844  
 DT : 4.25  
 FD : 0  
 DTG : 0

DFQ1 : 0  
 DFQ2 : 0  
 FlowCal : 138.134.50  
 FFQ : 0  
 FTG : 0

DensCal : 04066042394.25  
 FCF : 138.13  
 FT : 4.5

By *Bel Carter*  
 L.I. MENG  
 Technician

| Flow (%) | Flow Rate (kg/min) | Meter Total (kg) | Reference Total (kg) | Error (%) | Specification (±%) |
|----------|--------------------|------------------|----------------------|-----------|--------------------|
| 100.0    | 38.6               | 39.72197         | 39.72358             | -0.004    | 0.500              |
| 10.0     | 3.86               | 3.785245         | 3.789726             | -0.118    | 0.500              |
| 50.0     | 19.3               | 19.50329         | 19.50779             | -0.023    | 0.500              |
| 100.0    | 38.6               | 39.25427         | 39.25919             | -0.013    | 0.500              |

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 | 13191323  | 10274706 | 1.1  | 1    |              |
| 2700I13ABAEZWZ     | 3388332   | 10274706 | 1.34 | 1    |              |
| PUCK700            | 25940066  |          |      |      |              |

1801202

Process

Process ID : 1.34190950  
 Process Time : 2017.12.20 16:44:20  
 Process Stand : SSCB-CONFIG1@SSCB

Sensor

Units

D1 : 0  
 D2 : 1  
 DFQ1 : 0  
 DFQ2 : 0  
 DT : 4.25  
 DTG : 0  
 Density Meter Factor : 1  
 Density Press Comp Factor : 0  
 FCF : 138.13  
 FD : 0  
 FFQ : 0  
 FT : 4.5  
 FTG : 0  
 Flow PCP : 0  
 Flow PCF : 0  
 K1 : 4066.389  
 K2 : 4238.844  
 Mass Flow Meter Factor : 1  
 Temperature Cal Factor : 1.00000T.00000  
 Volume Flow Meter Factor : 1

Special Volume Conv Factor : 1  
 Special Volume Flow Text : NONE  
 Special Volume Time Unit : SEC  
 Special Volume Total Text : NONE  
 Temperature Unit : DEGC  
 Volume Flow Unit : L/MIN

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 : LOW ALARM  
 Event 2 Setpoint : 0  
 Event 2 Type : LOW ALARM  
 Frequency1 Active State : ACTIVE HIGH  
 Frequency1 Hertz : 1000  
 Frequency1 Pulses/Unit : 25.90674  
 Frequency1 Rate : 38.6  
 Frequency1 Units/Pulse : 0.0386  
 mA1 LRV : 0  
 mA1 URV : 38.6

Faults

Frequency1 Fault Behavior : UPSCALE  
 Frequency1 Fault Value : 15000  
 RS485 Fault Behavior : NONE  
 mA1 Fault Behavior : DOWNSCALE  
 mA1 Fault Value : 2

Other

Calibration Process ID : 5.26741636

Other

1801202

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 : 5948529  
LD Coil : 0  
LD Type : 0  
Mass Flow Cutoff : 1.836  
Pressure Comp Line Pressure : 0  
Pressure Compensation State : OFF  
RS485 Baud : 1200  
RS485 Parity : ODD  
RS485 Protocol : HART  
Slug Duration : 0  
Tag :  
Temperature Damping : 4.8  
Transmitter Software Rev : 66  
Volume Flow Cutoff : 0.11016



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2/5/2018

Dispenser Serial Number 18011202

## 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: 3388332  
Sensor Serial Number 13191323  
Flow Calibration Factor: 138.134.50  
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