

**Product Code** CNG050S290NCAAEZZZ    **Serial ID** 13159825    **Order ID** 10249434    **Line** 1.1    **Item** 4    **Customer Tag** 18011205

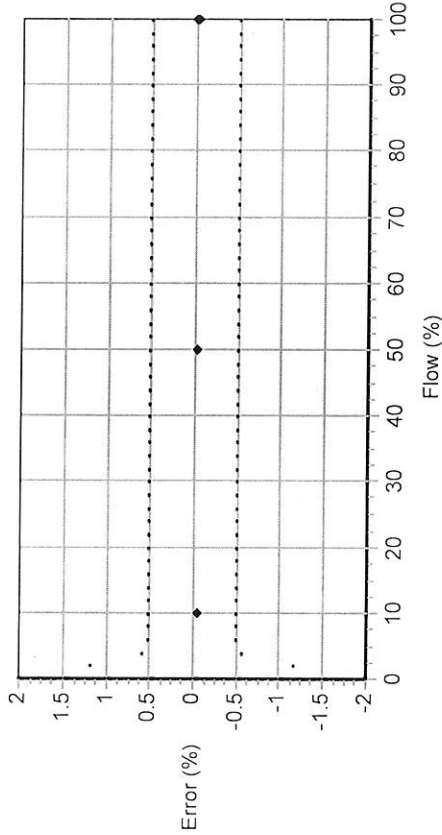
### Process

**Process ID** : 5.26371568  
**Process Time** : 2017.04.05 15:43:23  
**Process Stand** : TSGCNGESSCN  
**Stand Uncertainty** : +/-0.030%  
 Fluid : H2O  
**100% Rate** : 38.6 KG/MIN  
**Pickoff** : 1  
**Max Rate P/T** : 47.56 PSIG/25 C

### Results

**Status** : PASS  
 D1 : 0  
 D2 : 1  
 K1 : 4046.135  
 K2 : 4223.655  
 DT : 4.25  
 FD : 0  
 DTG : 0  
 DFQ1 : 0  
 DFQ2 : 0  
**FlowCal** : 137.714.50  
 FFQ : 0  
 FTG : 0  
**DensCal** : 04046042244.25  
**FCF** : 137.71  
**FT** : 4.5

### Detail



Flow (%)	Flow Rate (kg/min)	Meter Total (kg)	Reference Total (kg)	Error (%)	Specification (±%)
100.0	38.6	39.15455	39.16273	-0.021	0.500
10.0	3.86	3.777332	3.778959	-0.043	0.500
50.0	19.3	19.61427	19.61778	-0.018	0.500
100.0	38.6	39.32697	39.32797	-0.003	0.500

CHEN, QING  
 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	13159825	10249434	1.1	4	
2700I13ABAEZWW	3370456	10249434	1.34	4	
PUCK700	33350416				

1801205

Process

Process ID : 1.33714517  
 Process Time : 2017.05.03 22:27:25  
 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 : 137.71  
 FD : 0  
 FFQ : 0  
 FT : 4.5  
 FTG : 0  
 Flow PCP : 0  
 Flow PCF : 0  
 K1 : 4046.135  
 K2 : 4223.655  
 Mass Flow Meter Factor : 1  
 Temperature Cal Factor : 1.00000T.00000  
 Volume Flow Meter Factor : 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

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 : 5.26371568

18011205

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 : 3344743  
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



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

2/20/2018

Dispenser Serial Number 18011205

## 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: 3370456  
Sensor Serial Number: 13159825  
Flow Calibration Factor: 137.714.50  
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