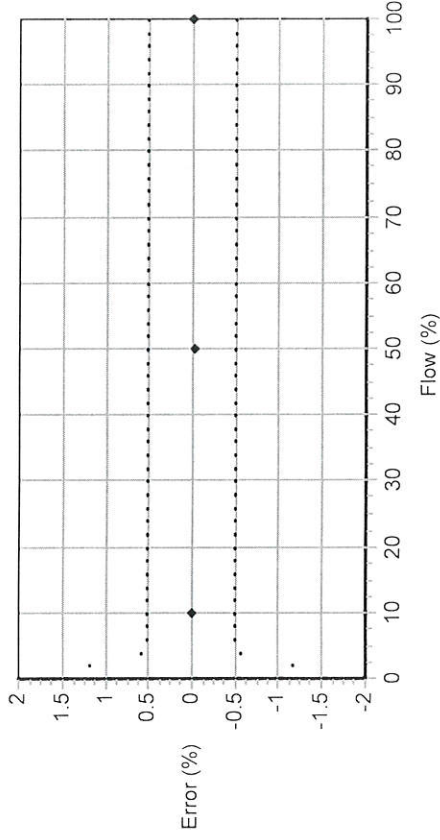


Product Code CNG050S290NCAAEEZZZ    Serial ID 13191025    Order ID 10274706    Line 1.1    Item 2    Customer Tag 18011201

Process

Process ID : 5.26740673  
 Process Time : 2017.12.01 18:57:19  
 Process Stand : TSGCNG@SSCN:1  
 Stand Uncertainty : +/-0.030%  
 Fluid : H2O  
 100% Rate : 38.6 KG/MIN  
 Pickoff : 1  
 Max Rate P/T : 47.98 PSIG/26.4 C

Detail



Results

Status : PASS  
 D1 : 0  
 D2 : 1  
 K1 : 4038.062  
 K2 : 4209.263  
 DT : 4.25  
 FD : 0  
 DTG : 0  
 DFQ1 : 0  
 DFQ2 : 0  
 FlowCal : 139.604.50  
 FFQ : 0  
 FTG : 0  
 DensCal : 04038042094.25  
 FCF : 139.6  
 FT : 4.5

Flow (%)	Flow Rate (kg/min)	Meter Total (kg)	Reference Total (kg)	Error (%)	Specification (±%)
100.0	38.6	39.72133	39.7198	0.004	0.500
10.0	3.86	3.783765	3.783907	-0.004	0.500
50.0	19.3	19.56602	19.57162	-0.029	0.500
100.0	38.6	39.26521	39.26192	0.008	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	13191025	10274706	1.1	2	
2700I13ABAEZWW	3388335	10274706	1.34	2	
PUCK700	25936559				

1801201

**Process**

Process ID : 1.34191374  
 Process Time : 2017.12.20 19:21:59  
 Process Stand : SSCB-CONFIG1@SSCB

**Sensor**

**Units**

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 : 5.26740673

**Units**

Density Unit : G/CUCM  
 GSV Flow Unit : SCFM  
 Mass Flow Unit : G/S  
 Pressure Unit : PSI  
 Special GSV Flow Unit Text : NONE  
 Special Mass Base Unit : GRAM  
 Special Mass Conv Factor : 1  
 Special Mass Flow Text : NONE  
 Special Mass Time Unit : SEC  
 Special Mass Total Text : NONE  
 Special Volume Base Unit : LITER

Other

1801201

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 : 5948536  
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

2/5/2018

Dispenser Serial Number 18011201

## 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: 3388335  
Sensor Serial Number 13191025  
Flow Calibration Factor: 139.604.50  
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