

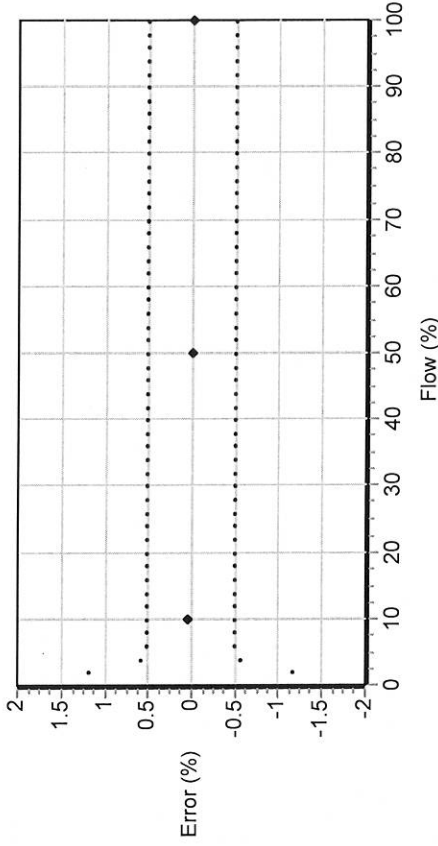
Product Code CNG050S290NCAAEEZZZ Serial ID 15076116 Order ID 10358161 Line 1.1 Item 2 Customer Tag 20041290



Process

Process ID : 9.26795818
Process Time : 2020.01.28 13:53:54
Process Stand : SSF1E@SSCCL:1
Stand Uncertainty : +/-0.030%
Fluid : H2O
100% Rate : 38.6 KG/MIN
Pickoff : 1
Max Rate P/T : 41.69 PSIG/20 C

Detail



Results

Status : PASS
D1 : 0
D2 : 1
K1 : 4041
K2 : 4211.277
DT : 4.25
FD : 0
DTG : 0
DFQ1 : 0
DFQ2 : 0
FlowCal : 139.164.50
FFQ : 0
FTG : 0
DensCal : 04041042114.25
FCF : 139.16
FT : 4.5

Table with 6 columns: Flow (%), Flow Rate (kg/min), Meter Total (kg), Reference Total (kg), Error (%), Specification (±%).

Signature of Razvan Octavian, COSMA
RAZVAN OCTAVIAN, COSMA
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      15076116      10358161      1.1      2      20041290  
2700I13ABAEZMW      3455804      10358161      1.33      2  
PUCK700      26073358

Process

Process ID : 1.35654760  
Process Time : 2020.02.14 18:55:39  
Process Stand : CONFIGURATION@SSCB

Sensor

D1 : 0      Special Mass Time Unit : SEC  
D2 : 1      Special Mass Total Text : NONE  
DFQ1 : 0      Special Volume Base Unit : L  
DFQ2 : 0      Special Volume Conv Factor : 1  
DT : 4.25      Special Volume Flow Text : NONE  
DTG : 0      Special Volume Time Unit : SEC  
Dens PCF : 0      Special Volume Total Text : NONE  
Density Meter Factor : 1      Temperature Unit : C  
FCF : 139.16      Volume Flow Unit : L/MIN  
FD : 0  
FFQ : 0  
FT : 4.5  
FTG : 0  
Flow PCP : 30  
Flow PCF : 0  
K1 : 4041  
K2 : 4211.277  
Mass Flow Meter Factor : 1  
Volume Flow Meter Factor : 1

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

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

Other

Calibration Process ID : 9.26795818  
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 : 6062043  
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

20041290



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

6/18/2020

Dispenser Serial Number 20041290

## 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: 3455804  
Sensor Serial Number 15076116  
Flow Calibration Factor: 139.164.50  
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