

# Configuration Data Sheet

00806-0200-4716, Rev AA

July 2008

## Rosemount Custom Gas Data Sheet

**BOLD** = Required Value  
★ = Default Value

Select only one of the items provided  
 One or more of the listed items can be selected

### Customer Information

Customer: \_\_\_\_\_ Contact Name: \_\_\_\_\_

Phone No.: \_\_\_\_\_ Fax No./Email: \_\_\_\_\_

### Tagging

Instrument Tag: \_\_\_\_\_

### NOTE

For a custom gas configuration, please complete the following fields or submit a Gas Composition Analysis.

### Operating and Reference Conditions

Fill in the following fields from the Process Information and Base Condition fields in the DP Flow CDS. These values will be used to define the Density / Compressibility Table on pages 2 and 3.

Operating Pressure:

Normal: \_\_\_\_\_ Minimum: \_\_\_\_\_ Maximum: \_\_\_\_\_

Units:  psi  bar  kPa  MPa

Operating Temperature:

Normal: \_\_\_\_\_ Minimum: \_\_\_\_\_ Maximum: \_\_\_\_\_

Units:  °F  °C

Reference Conditions:

Pressure: \_\_\_\_\_ 14.696 psi★ Temperature: \_\_\_\_\_ 60 °F★ Atmospheric Pressure: \_\_\_\_\_ 14.696 psi★

### Molecular Weight and Isentropic Exponent

Fill in the Molecular Weight and Isentropic Exponent.

Molecular Weight \_\_\_\_\_

Isentropic Exponent \_\_\_\_\_ 1.4★

### Viscosity

Select the Viscosity Units, then fill in the Viscosity value at the Reference Pressure and Temperature listed above.

Viscosity:

Centipoise

Lbs/Ft Sec

Pascal Sec

Temperature Value:

Min. Operating Temp. = \_\_\_\_\_

[ $1/3(\max-\min)$ ]+min = \_\_\_\_\_

[ $2/3(\max-\min)$ ]+min = \_\_\_\_\_

Max. Operating Temp. = \_\_\_\_\_

Viscosity Value:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

### Density / Compressibility

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Process Management

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Select the Density Units or Compressibility, then fill in the Density or Compressibility value at the Reference Temperature and Pressure Conditions listed above.

Density / Compressibility:            Reference Density / Compressibility \_\_\_\_\_

- Density in Kg/CuM
- Density in Lbs/CuFt
- Compressibility

**Density / Compressibility Table**

Calculate the pressure and temperature values below.

Pressure 1: Min. Op. Pressure = \_\_\_\_\_                      Temperature 1: Min. Operating Temp. = \_\_\_\_\_

Pressure 2: [ $\frac{1}{3}(\text{max-min})$ ]+min= \_\_\_\_\_                      Temperature 2 : [ $\frac{1}{2}(\text{max-min})$ ]+min = \_\_\_\_\_

Pressure 3: [ $\frac{2}{3}(\text{max-min})$ ]+min= \_\_\_\_\_                      Temperature 3 : Max. Operating Temp.= \_\_\_\_\_

Pressure 4: Max. Op. Pressure = \_\_\_\_\_

Fill in the Density or Compressibility values for each pressure and temperature.

	Temperature 1:	Temperature 2:	Temperature 3:
Pressure 1:	_____	_____	_____
Pressure 2:	_____	_____	_____
Pressure 3:	_____	_____	_____
Pressure 4:	_____	_____	_____

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