APPLICATION MODULE

Gas Density Application Module Library

The GasDens application module is designed to generate an upstream density for use by the ISO51670 or ISO5167V flow application modules and provides the following functionality:

- Calculation and display of density figures
- Allows a live density to be wired in
- Overall switch provided to select desired density calculation
- Standard supervisory workstation interface
- Standard software block
- Status and alarm display
- Operator faceplate
- Engineer point display

The GasDens application module forms part of a library of software function blocks designed to aid the implementation of flow calculation. The block assumes that pressure and temperature inputs are in barG and °C, respectively. These are then internally converted to barA and K.

Applications

The application module works as an extension to the AGA8DATA block and offers the functionality required to calculate a gas density according to any of three standard methods.





CONTROLS PROCESS AUTOMATION RECORDERS

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OUTLINE SPECIFICATION

I/O

Differential Pressure input

Upstream Static Line Pressure input

Upstream Line Temperature input

Live Density input

Operating/Laboratory Parameters

Specific Heat Ratio

Relative Density

Molecular Weight

Zbase

Zline

Calculations

Measuresd density

Alarms

Override Raised when mode is Manual

High Density

Low Density

Deviation

Operating Modes Manual

Density can be an operator entry used for calibration purposes Meas or Auto

Density is calculated using Live Density, etc.

Calc

Density is calculated using Molecular Weight, etc.

Deriv

Density is calculated using Relative Density, etc.



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