Rosemount™ 8600 Vortex Flow Meter Configuration Data Sheet

○ Select only one of the items provided

□ One or more of the listed items can be selected

* Default value

Customer information	
Customer:	Contact name:
Quote/PO #:	Line #:

Fluid selection					
Steam:	○ Superheated	Saturated			
		○ Pressure-based		○ Temperature-Based	
Liquid:	○ Water*	○ Methanol		○ Ethanol	
	○ Ammonia	○ Oxygen		○ Other: _____	
Gas:	○ Air	○ Nitrogen		○ Hydrogen	
	○ Oxygen	○ Carbon Dioxide		○ Other: _____	

Fluid properties
Name:
Density or Specific Gravity:
Viscosity:
Vapor pressure (liquids):
Base density:

Process information

Flow rate, pressure, and temperature							
			Units	Minimum	Normal	Maximum	Design
Flow rate:							
Pressure:	Process	○ Absolute					
		○ Gauge (1)					
		(Atmospheric) ○ 14.7 psi ○ Other _____					
Temperature:							

(1) *If gauge pressure is selected, provide atmospheric pressure.*

Base conditions (Required only if Standard Volumetric Flow Rate Units are used)				
	○ Standard*	○ Normal	○ Standard - Natural Gas	○ User Defined
Pressure	14.696 psia (101.3625 kPaa)	14.696 psia (101.3625 kPaa)	14.73 psia (101.3727 kPaa)	_____ ○ psia ○ kPaa
Temperature	60 °F (15.56 °C)	32 °F (0 °C)	60 °F (15.56 °C)	_____ ○ °C ○ °F

Mating pipe I.D.				
Process line size: _____	or Mating Pipe I.D. _____		○ Inches*	○ Millimeters
Mating pipe schedule ○ 10	○ 40	○ 80	○ 160	○ Other

Transmitter

Physical tag

Hardware Tag		
Type	**Line #**	**Characters (maximum number)**
Transmitter name tag:	1	_ (21)
Transmitter wire-on tag	1	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ (17)
	2	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ (17)
	3	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ (17)
	4	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ (17)
	5	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ (17)
Meter body name tag:	1	_ (21)
Meter body wire-on tag	1	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ (17)
	2	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ (17)
	3	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ (17)
	4	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ (17)
	5	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ (17)

HART/Analog configuration

Variable mapping

Variable mapping				
Primary Variable:	○ Volumetric flow*	○ Mass flow	○ Velocity flow	○ Process temperature(1)	○ Corrected volumetric flow
Secondary (SV), Tertiary (TV), and Quaternary (QV) variables. Select up to three variables from the list. Mark the SV with a 2, TV with a 3, and QV with a 4.				
____ Volumetric flow		____ Corrected volumetric flow		____ Mass flow
____ Velocity flow		____ Flow totalizer		____ Electronics temperature
____ Pulse output frequency		____ Shedding frequency		____ Signal strength
____ Thermocouple CJ temperature(1)		____ Process temperature(1)		

(1) *Requires MTA ordering option.*

Scaling

4–20 mA scaling (Primary Variable selected above will be assigned to the mA output)		
LRV:	URV:	UOM:

Pulse output

Pulse output (with output option code P)						
Pulse output based on:	○ Direct shredding frequency*	○ Volume flow	○ Mass flow	○ Corrected volumetric flow	○ Velocity flow	
	Scaled:	1 pulse = ____ (e.g., 1 pulse = 10 gal)				
	OR:	____ = ____ Hz (e.g., 10 gal/min = 100 Hz)				

Software tag

Software Tag - choose one according to protocol	
HART 5	__ __ __ __ __ __ __ __ (8)

Display

HART LCD configuration (check all items to be displayed)		
☐ Volumetric flow rate	☐ Process temperature(1)	☐ Electronics temperature
☐ Shedding frequency	☐ Mass flow rate	☐ % range*
☐ Pulse output frequency	☐ Flow totalizer	☐ Velocity
☐ Primary variable*	☐ Analog output	☐ Thermocouple CJ temperature(1)
☐ Corrected volumetric flow	☐ Signal strength	☐ Process density(1)

(1) *Requires MTA ordering option.*

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