

Configuration Data Sheet

00806-0100-4727, Rev UC

April 2013

Rosemount 8700 Series

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All sections up to C1 Note are required on this form.

* = Default Value

Select only one of the items provided

One or more of the listed items can be selected

Customer Information	
Customer: _____	Contact Name: _____
P.O./Reference No: _____	Fax No./Email: _____
Phone No.: _____	P.O. Line Item: _____
Quote No. _____	Model No.: _____
Customer Signoff: _____	

Tagging
Hardware Tag: _____ (21 characters max)
Software Tag: _____ (8 characters max)

Meter
Model Type: <input type="radio"/> Sensor <input type="radio"/> Magmeter System (Sensor and Transmitter) <input type="radio"/> Transmitter
Transmitter Type: <input type="radio"/> Integral Mount <input type="radio"/> Remote Mount

Fluid Selection
Fluid: Name: _____
Density or Specific Gravity ⁽¹⁾ : _____
Conductivity: _____

(1) Required for Mass Units only.

Process Information ⁽¹⁾					
	Units	Minimum	Normal	Maximum	Design
Flow Rate:					
Pressure:					
Process Temp:					

(1) Gray boxes are required values.

Process Variable Configuration			
	4 mA LRV (0.0 ft./sec [*])	20 mA URV (30 ft/sec [*])	Unit of Measure
Flow:			



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C1 NOTE

The following sections are required only if C1 option is selected.

Basic Configuration	
Damping = 2.0 seconds★ _____	
Sensor Size = 3-in.★ _____ 3 to 36-in. (8712H) / 0.10 to 80-in. (All others)	
Special Units (HART only)	
For a list of all standard configurable units, consult the appropriate product manual available on www.emersonprocess.com/rosemount .	
Volume Units: _____ (4 characters)	
Base Units:	<input type="radio"/> Gallons <input type="radio"/> Cubic Meters <input type="radio"/> Barrels <input type="radio"/> Short Ton <input type="radio"/> Kilogram <input type="radio"/> Liters <input type="radio"/> Cubic Centimeters <input type="radio"/> Barrels (beer) <input type="radio"/> Pound <input type="radio"/> Imperial Gallon <input type="radio"/> Feet <input type="radio"/> Cubic Feet <input type="radio"/> Metric Ton <input type="radio"/> Meters
Conversion Factors: _____ where one special unit = Conversion Factor x Base Unit	
Time Base:	<input type="radio"/> Seconds <input type="radio"/> Minutes <input type="radio"/> Hours <input type="radio"/> Days
Rate Units:	_____ (4 characters)
Totalizer Units:	_____ (4 characters) Totalizer Units can be set independently of the flow units
HART / Transmitter Information	
Write Protect	<input type="radio"/> Off★ <input type="radio"/> On <input type="radio"/> Alarm Option <input type="radio"/> High★ <input type="radio"/> Low (8732E/8712E only) <input type="radio"/> Alarm Standard <input type="radio"/> Rosemount★ <input type="radio"/> Namur
Descriptor _____ (16 characters maximum) Date (day/month/year): ____ / ____ / ____	
Message _____ (32 characters maximum)	
<input type="radio"/> 4–20 mA, scaled pulse, and auxiliary output with simultaneous digital signal based on HART® protocol★ <input type="radio"/> Burst mode of HART digital process variable	
Burst mode output options:	
<input type="radio"/> Primary variable in engineering units. <input type="radio"/> Primary variable in percent of range. <input type="radio"/> All dynamic variables in engineering units. <input type="radio"/> All dynamic variables in engineering units and the primary variable mA value.	
<input type="radio"/> Multidrop Communications ⁽¹⁾ Choose transmitter address (1-15) ⁽²⁾ _____	

(1) This option fixes the transmitter's analog output at 4 mA.
(2) Default transmitter address is 1 if multidrop communication is selected.

Sensor Information (Data Only – Does Not Affect Transmitter Output)	
Sensor Tag No. (Software) _____ (8 characters maximum)	
Sensor Serial No. _____ (7 characters maximum)	
Sensor Calibration No. _____ 16 Digits from sensor 1000005010000000★	
SST Sensor Tag No. _____	
Enter either the Rosemount sensor model number or select one option from each of the following groups of options:	
Sensor Model No. _____	
Electrode Material:	Electrode Type:
<input type="radio"/> 316 SST★ <input type="radio"/> Tantalum <input type="radio"/> Titanium <input type="radio"/> Platinum-Iridium <input type="radio"/> Nickel Alloy-276 <input type="radio"/> Special	<input type="radio"/> Standard★ <input type="radio"/> Standard, plus Grounding <input type="radio"/> Bullet <input type="radio"/> Special
Flange Material:	Liner Material:
<input type="radio"/> Carbon Steel★ <input type="radio"/> 304 SST <input type="radio"/> 316 SST <input type="radio"/> Wafer	<input type="radio"/> PTFE★ <input type="radio"/> Neoprene <input type="radio"/> Special <input type="radio"/> ETFE <input type="radio"/> Linatex Rubber <input type="radio"/> Polyurethane

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Advanced Configuration Options (Not Required for Typical Start-up)			
Pulse Scaling: (Not available in FOUNDATION fieldbus) <input type="radio"/> 0.03 ft [★] <input type="radio"/> 1 Pulse = _____ units Pulse Width: _____ 0.5 ms [★]	Operation Mode: <input type="radio"/> Normal [★] <input type="radio"/> Filter	Signal Processing: <input type="radio"/> Off [★] <input type="radio"/> On _____ 90 [★] No. Samples _____ 2 [★] Max.% Limit % _____ 2 [★] Time Limit Sec	
Low Flow Cutoff: _____ 0.04 ft/sec [★]	Coil Pulse Mode: (Not available with 8712H) <input type="radio"/> 5 Hz [★] <input type="radio"/> 37.5 Hz		
Local Display Language: (8732E only) <input type="radio"/> English [★] <input type="radio"/> Spanish <input type="radio"/> French <input type="radio"/> German <input type="radio"/> Portuguese			
Flow Direction <input type="radio"/> Enable <input type="radio"/> Disable [★] Reverse Flow			
Flowrate Display (Not available in FOUNDATION fieldbus) <input type="radio"/> Eng Units and % span [★] <input type="radio"/> Eng Units and Gross Total <input type="radio"/> % Span and Gross Total			
Totalizer Display (Not available in FOUNDATION fieldbus) <input type="radio"/> Net and Gross [★] <input type="radio"/> Forward and Reverse			
Analog Loop Power <input type="radio"/> Internal [★] <input type="radio"/> External (8732E/8712E only)			
Pulse Loop Power (8732E only) <input type="radio"/> Internal <input type="radio"/> External [★]			
Simulate (FOUNDATION fieldbus only) <input type="radio"/> Off [★] <input type="radio"/> On			
Standard Diagnostics Information			
Empty Pipe <input type="radio"/> Enable [★] Trigger Level _____ 100 [★] (8732E/8712E only) <input type="radio"/> Disable Empty Pipe Counts _____ 5 [★] (8732E/8712E only)			
Electronics Temperature (8732E/8712E only) <input type="radio"/> Enable [★] <input type="radio"/> Disable			
Advanced Diagnostics Information (Requires DA1/D01 Option) (8732E/8712E only)			
High Process Noise <input type="radio"/> Enable [★] <input type="radio"/> Disable Grounding/Wiring Faults <input type="radio"/> Enable [★] <input type="radio"/> Disable NOTE If DA1/D01 is selected in the model code, Empty Pipe and Electronics Temp Diagnostics will also be enabled.			
Electrode Coating Detection (8732E Only) <input type="radio"/> Enable [★] Electrode Coating Level 1 _____ 1000 kOhm [★] <input type="radio"/> Disable Electrode Coating Level 2 _____ 2000 kOhm [★]			
8714i Meter Verification Diagnostic (Requires DA2/D02 Option) (8732E/8712E only)			
Test Criteria NOTE Empty Pipe: _____ 5% [★] The Test Criteria value sets the pass fail value for the meter calibration verification check. This value must be an integer value between 1 and 10%. Flowing Full: _____ 5% [★] Full, No Flow: _____ 5% [★]			
Continuous Meter Verification (8732E only; Requires DA2 Option)			
Test Criteria _____ 5% [★]			
Transmitter <input type="radio"/> Enable [★] <input type="radio"/> Disable Coil <input type="radio"/> Enable [★] <input type="radio"/> Disable Electrode Resistance <input type="radio"/> Enable <input type="radio"/> Disable [★] Analog Signal <input type="radio"/> Enable [★] <input type="radio"/> Disable			
Digital Input / Digital Output Information (Requires AX Option) (8732E/8712E only)			
DI/DO Channel 1 Digital Input Configuration <input type="radio"/> Input [★] <input type="radio"/> Positive Zero Return (PZR) [★] <input type="radio"/> Output <input type="radio"/> Totalizer Reset <input type="radio"/> Disable DO Configuration <input type="checkbox"/> Reverse Flow <input type="checkbox"/> Flow Limit 1 <input type="checkbox"/> Zero Flow [★] <input type="checkbox"/> Flow Limit 2 <input type="checkbox"/> Transmitter Fault (Alarm) <input type="checkbox"/> Diagnostic Status Alert <input type="checkbox"/> Empty Pipe <input type="checkbox"/> Totalizer Limit 1		DO Channel 2 <input type="radio"/> Enable [★] <input type="radio"/> Disable DO Configuration <input type="checkbox"/> Reverse Flow <input type="checkbox"/> Flow Limit 1 <input type="checkbox"/> Zero Flow [★] <input type="checkbox"/> Flow Limit 2 <input type="checkbox"/> Transmitter Fault (Alarm) <input type="checkbox"/> Diagnostic Status Alert <input type="checkbox"/> Empty Pipe <input type="checkbox"/> Totalizer Limit 1	

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Flow and Totalizer Alert Configuration (8732E/8712E only)		
Flow Limit 1 Configuration Control 1 <input type="radio"/> ON <input type="radio"/> OFF* Mode 1 <input type="radio"/> > High Limit <input type="radio"/> < Low Limit <input type="radio"/> In Range <input type="radio"/> Out of Range High Limit 1: _____ Low Limit 1: _____ Flow Limit Hysteresis: _____	Flow Limit 2 Configuration Control 2: <input type="radio"/> ON <input type="radio"/> OFF* Mode 2: <input type="radio"/> > High Limit <input type="radio"/> < Low Limit <input type="radio"/> In Range <input type="radio"/> Out of Range High Limit 2: _____ Low Limit 2: _____	Totalizer Limit Configuration Control: <input type="radio"/> ON <input type="radio"/> OFF* Mode: <input type="radio"/> > High Limit <input type="radio"/> < Low Limit <input type="radio"/> In Range <input type="radio"/> Out of Range High Limit: _____ Low Limit: _____ Totalizer Limit Hysteresis: _____
Diagnostic Status Alert (8732E/8712E only)		
<input type="checkbox"/> Electronics Failure <input type="checkbox"/> Electronics Temp Out of Range <input type="checkbox"/> Empty Pipe <input type="checkbox"/> Reverse Flow	<input type="checkbox"/> Coil Open Circuit <input type="checkbox"/> Coil Over Current <input type="checkbox"/> Coil Power <input type="checkbox"/> Sensor Electrode Saturation	<input type="checkbox"/> Continuous Meter Verification <input type="checkbox"/> Grounding / Wiring Fault <input type="checkbox"/> High Process Noise <input type="checkbox"/> Electrode Coating Level 1 (8732E only) <input type="checkbox"/> Electrode Coating Level 2 (8732E only)
*Select as many options as needed for the application		

Diagnostic Analog Alarm Configuration	
Analog Output to Alarm <input type="checkbox"/> Empty Pipe <input type="checkbox"/> Reverse Flow <input type="checkbox"/> Grounding and Wiring <input type="checkbox"/> High Process Noise <input type="checkbox"/> Electronics Temperature Out of Range	<input type="checkbox"/> Totalizer Limit Alert <input type="checkbox"/> Flow Limit 1 Alert <input type="checkbox"/> Flow Limit 2 Alert <input type="checkbox"/> Continuous Meter Verification <input type="checkbox"/> Electrode Coating Level 2 (8732E only)

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