## **Configuration Data Sheet**

00806-0100-4727, Rev UB December 2010

# Rosemount 8700 Series

# **Rosemount 8700 Series Configuration Data Sheet**

All sections  * = Default		te are required on	this form.			of the items p the listed item			
Customer	Information								
Customer:				Contact Nam	ne:				
P.O./Reference	ce No:			Fax No./Ema	ail:				
Phone No.: _				P.O. Line Iter	n:				
Quote No				Model No.:_					
Customer Sig	gnoff:								
Tagging									
Hardware Tag	g.:			(2	1 characters ma	x)			
Software Tag	:			(8	characters max				
Motor									
Meter Model Type:		○ Sensor	○ Mac	ameter System (	Sensor and Tran	smitter)		mitter	
Transmitter Ty	уре:	○ Integral Mount		<ul><li>Magmeter System (Sensor and Transmitter)</li><li>Remote</li></ul>					
Fluid Selec	tion								
Liquid:	○ Water	O Acetic Acid	O Nitric Acid	Orange Juic	e Concentrate	○ Milk	Other	(1)	
	Conductivity es Custom informed for Mass Units								
Process In	formation <sup>(1)</sup>								
Flow Rate:		Units	Minimum	Minimum Normal		Maximum		Design	
Pressure:									
Process Temp	p:								
. , ,	oxes are required								
	LRV <sup>(1)</sup> (0.0	0 ft./sec*)	URV <sup>(2)</sup> (30 ft/se	ec*)	Unit of	Measure			
Flow:							(Not av	ailable in Foundation fieldbus	
* *		Process Variable that is  Variable that is mapped	• •		•		T		
(Z) THE ON	101 410 1 100033	тапаро тапо таррес	a to the F v will determ	ano dio 20 mia 3	osponii oi uie uai	ioniiiion.			





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

ins blenning sections are required only in 0.1 spatially executed.						
Basic Configuration						
Damping = 2.0 seconds * (2.0 seconds for FOUNDATION fieldbus)						
Sensor Size =	3-in.*	3 to 36-in. (8712H	) / 0.15 to 60-in. (All	others)		
Special Units (H.	ART only)					
For a list of all stand	lard configurable units, cor	sult the appropriate prod	duct manual availabl	e on www.emerson	process.com/rosemount.	
Volume Units:	(4 characters)					
Base Units:	Gallons	<ul> <li>Cubic Meters</li> </ul>	○ Barrels	<ul><li>Short Ton</li></ul>	○ Kilogram	
	○ Liters	O Cubic Centimeters	O Barrels (beer)	○ Pound	○ Imperial Gallon	
	○ Feet	O Cubic Feet	O Metric Ton			
		○ Meters		D 11.7		
	·v					
Time Base:	○ Seconds	○ Minutes	○ Hours	○ Days		
Rate Units:	(4 characters)					
Totalizer Units:	(4 characters)		Totalizer Units can	be set independen	tly of the flow units	
HART / Transmit	tter Information					
Write Protect		○ Off*		∩ On		
Alarm Option		⊖ High*		○ Low (8732E/87	(12F only)	
Alarm Standard		○ Rosemount*		○ Namur	12L Olly)	
				O .		
Descriptor		(16 charac	ters maximum) Da	te (day/month/year	)://	
Message				(32 c	haracters maximum)	
<ul> <li>○ 4–20 mA, scaled pulse, and auxiliary output with simultaneous digital signal based on HART® protocol*</li> <li>○ Burst mode of HART digital process variable</li> </ul>						
Burst mode output of	options:					
	ry variable in engineering ι					
	ry variable in percent of rai					
	namic variables in enginee namic variables in enginee		y variable mA value.			
	○ Multidrop Communications <sup>(1)</sup>					
	ransmitter address (1-15)(2	2)				
	es the transmitter's analog		locted			

Sensor Information (Data Only	<ul> <li>Does Not Affect Transmit</li> </ul>	tter Output)			
Sensor Tag No. (Software)	(8 cha	racters maximum)			
Sensor Serial No.	(7 cha	racters maximum)			
Sensor Calibration No.		16 Digits from sense	or 1000005010000000*		
SST Sensor Tag No.					
Enter either the Rosemount sensor r Sensor Model No.	•				
Electrode Material:  ○ 316 SST★  ○ Titanium  ○ Nickel Alloy-276	<ul><li> Tantalum</li><li> Platinum-Iridium</li><li> Special</li></ul>		Electrode Type:  ○ Standard★  ○ Bullet	<ul><li>○ Standard, plus G</li><li>○ Special</li></ul>	rounding
Flange Material:  ○ Carbon Steel★  ○ 316 SST	<ul><li>○ 304 SST</li><li>○ Special</li></ul>		Liner Material:  ○ PTFE★  ○ ETFE  ○ Polyurethane	<ul><li>○ Neoprene</li><li>○ Natural Rubber</li></ul>	<b>O</b> ,

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Advanced Configuration Opt	tions (Not Required for	Typical Start	t-up)				
Pulse Scaling: (Not available in Fou	JNDATION fieldbus)		Operation		5	Signal Proce	essing:
○ 0.03 ft*			Mode:			) Off* () C	
( 0.03 π ( 1 Pulse =	unite		<ul><li>○ Normal </li><li>○ Filter</li></ul>		(	) On () C	on 90 <sup>★</sup> No. Samples
0 1 Fulse =	units		OTILLE		-		90 No. Samples
Pulse Width: 1.5 m/s	<b>t</b>				_		2 <sup>★</sup> Max.% Limit %
							2 * Time Limit Sec
					-		Z Timo Limit Goo
Low Flow Cutoff: 0.04	ft/sec <sup>★</sup>		Coil Pulse I	Mode: (Not available v	vith 8712H)		
Local Display Language: (8732E or	nly)						
○ English ★ ○ Spanish							
<ul><li>○ French</li><li>○ German</li><li>○ Portuguese</li></ul>							
Flowrate Display	○ Eng Units and %	span*	○ Ena Unit	s and Gross Total	○ % Span and	Gross Total	
(Not available in FOUNDATION fieldb			O =g		O 70 <b>-</b>		
Totalizer Display (Not available in FOUNDATION fieldb	○ Net and Gross × us)		○ Forward	and Reverse			
Analog Loop Power	○ Internal *			(8732E/8712E only)			
Pulse Loop Power (8732E only)	◯ Internal		○ External	^			
Simulate (FOUNDATION fieldbus only)	Оп		○ On				
Standard Diagnostics Inform	ation						
Empty Pipe							
○ Enable ○ Disable ★	Trigger Level Empty Pipe Counts	100 <sup>**</sup> (87 5 <sup>**</sup> (8732	32E/8712E o 2E/8712E onl	nly) y)			
Electronics Temperature (8732E/87  Enable  Disable	12E only)						
Advanced Diagnostics Inform	mation (Requires DA1/I	D01 Option)	(8732E/87	2E only)			
High Process Noise	Grounding/Wiring Faults	NOTE			. 5:		
○ Enable <sup>★</sup> ○ Disable	<ul><li>○ Enable </li><li>○ Disable</li></ul>	If DA1/D01 i enabled.	s selected in	the model code, Emp	ty Pipe and Electr	onics Temp	Diagnostics will also be
8714i Meter Verification Diag	Ŭ		(8732F/87	2F only)			
Test Criteria	iliostic (Requires DAZ/	NOTE	(01321/01	IZE Offiy)			
Empty Pine: 5%★		The Test Cri			for the meter calib	ration verifi	ication check. This value must
Flowing Full: 5%  Full, No Flow: 5%		be an intege	r value betwe	een 1 and 10%.			
Continuous Meter Verificatio	n (9722E only)						
	II (0732L OIIIY)						
Test Criteria 5% * Transmitter	Coil	Electrode F	esistance	Analog Signal			
○ Enable*	⊝ Enable*			○ Enable *			
○ Disable	○ Disable	O Disable		○ Disable			
Digital Input / Digital Output	Information (Requires	AX Option)	(8732E/871	2E only)			
DI/DO Channel 1		DO Channe	el 2				
○ Input★		○ Enable★	7				
Output		O Disable					
○ Disable							
Digital Input Configuration		J	•	t 2 options if channel	o o	,	
○ Positive Zero Return (PZR)★		Reverse			☐ Flow		
○ Totalizer Reset		☐ Zero Flo		rm)	☐ Flow		Alort
○ Transmitter Reset		☐ Empty P	ter Fault (Ala ipe	IIII <i>)</i>	_	iostic Status zer Limit 1	AIGIL

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Flow and Totalizer Alert Configuration	*					
Flow Limit 1 Configuration	Flow Limit 2 Configuration	Totalizer Limit Configuration				
Control 1 ON OFF	Control 2: ○ ON ○ OFF	Control: ○ ON ○ OFF				
Mode 1	Mode 2: ○ > High Limit	Mode: ○ > High Limit				
		○ < Low Limit				
○ In Range	○ In Range	○ In Range				
Out of Range	Out of Range	Out of Range				
High Limit 1:	High Limit 2:	High Limit:				
Low Limit 1:	Low Limit 2:	Low Limit:				
Flow Limit Hysteresis:		Totalizer Limit Hysteresis:				
Diagnostic Status Alert (8732E/8712	E only)					
☐ Electronics Failure	☐ Reverse Flow	☐ Electronics Temp Out of Range				
☐ Coil Open Circuit	☐ Grounding / Wiring Fault	☐ Continuous Meter Verification				
☐ Empty Pipe	☐ High Process Noise	*Select as many options as needed for the application				
Diagnostic Analog Alarm Config	guration					
Analog Output to Alarm						
<ul><li>○ Enable</li><li>○ Disable</li></ul>						
_						
☐ Empty Pipe★	☐ Totalizer Limit Alert					
☐ Reverse Flow	☐ Flow Limit 1 Alert					
☐ Grounding and Wiring	☐ Flow Limit 2 Alert					
☐ High Process Noise	☐ Continuous Meter Ver	rification				
☐ Electronics Temperature Out of Range	ge					

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