

Pressure Transmitter w/ Remote Seals Specification Sheet		EMERSON		Sheet	1	of	1			
				Spec No.			Rev.			
Customer:				Contract			P.O.			
Project: NIVEL UTGCA				Req.			By			
Plant Area:				Checked			Approved			
Unit:										
GENERAL	1	Tag No.	LIT-006							
	2	Service	VASO DE CARGA							
	3	PID No.	(NIVEL UTGCA)-001-20171121-000001							
PROCESS VARIABLES	4	Process Pressure	Minimum 3873.000000	Maximum 3873.000000	Design 4837.000000	Units kPa-g				
	5	Temperature			65.000000	C				
PROCESS CONDITIONS			High Pressure Side			Low Pressure Side				
	6	Ambient Temperature	Minimum 15.000000	Maximum 35.000000	Last Zero Adjust 30.000000	Units C	Minimum 15.000000	Maximum 35.000000	Last Zero Adjust 30.000000	Units C
TRANSMITTER	7	Process Temperature	-28.000000	-28.000000	-28.000000	C	-28.000000	-28.000000	-28.000000	C
	8	Calibrated Span	0%	100%	Span -865.464982	Units -336.403343	529.061638 mmH2O@4C			
	9	Manufacturer	Rosemount, Inc.							
	10	Transmitter Model No.	3051CD2F22A1AS2M5B4E2Q4							
	11	Pressure Transmitter Type (Product)	Pressure Transmitter							
	12	Measurement Type	Differential							
	13	Pressure URL	250 inH2O (622.7 mbar)							
	14	Transmitter Output	FOUNDATION fieldbus protocol							
	15	Materials of Construction	Coplanar							
	16	Isolating Diaphragm	316L SST							
	17	O-Ring	Glass-filled PTFE							
	18	Sensor Fill Fluid	Silicone							
	19	Housing Material/Conduit Entry Size	Polyurethane-covered Aluminum							
	20	Remote Seal	Assemble to two Rosemount 1199 Diaphragm Seals							
	21	Display Type	LCD Display							
	22	Mounting Bracket	Coplanar flange bracket for 2-in. pipe or panel mounting, all SST							
	23									
	24									
	25									
	26									
27										
28										
29										
30										
31										
32										
33										
PRODUCT CERTS, TESTING, ADDITIONAL OPTIONS	34	Cert/Approval Type	INMETRO Flameproof *** Calibration Certificate							
	35	Testing								
	36	Additional Options								
REMOTE SEALS	Remote Seals		High Pressure Side Remote Seal			Low Pressure Side Remote Seal				
	37	Remote Seal Model No.	1199DAB59AFCWG4DAA9H			1199DAB59AFCWG4DAA9H				
	38	Seal Product	Ring Type Joint Flanged; Flush Surface			Ring Type Joint Flanged; Flush Surface				
	39	Seal Type	Remote Seals			0.03 in. (0.711 mm) ID				
	40	Location/Const. Type	Welded-Repairable, One or Two Seal System, Balanced System-Same Seal both sides			Welded-Repairable, One or Two Seal System, Balanced System-Same Seal both sides				
	41	Seal Fill Fluid	Syltherm XLT			Syltherm XLT				
	42	Seal Conn. Type	0.03 in. (0.711 mm) ID							
	43	Capillary Connection Length	5.0 m (16.4 ft)			5.0 m (16.4 ft)				
	44	Industry Standard	ANSI			ANSI				
	45	Process Connection Style	Ring Type Joint Flanged; Flush Surface			Ring Type Joint Flanged; Flush Surface				
	46	Process Connection Size	2 in.			2 in.				
	47	Flange Pressure Rating	Class 600			Class 600				
	48	Materials	316L SST			316L SST				
	49	Ring Material	316L SST			316L SST				
50	Flushing Options	Two 1/2-in. Flushing Connections			Two 1/2-in. Flushing Connections					
51	Plugs/Drain Vent	SST Drain/Vent in Flushing Connection			SST Drain/Vent in Flushing Connection					
52										
53										
54										
PRODUCT CERTS, ADDITIONAL OPTIONS	55	Cert/Approval Type								
	56	Additional Options								
NOTES	57									
	58									
	59									
60										

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 Toolkit Version: V3.0 (Build205B)

Input Summary



Tag Number: LIT-006
 Service: VASO DE CARGA
 Project Name: (NIVEL UTGCA):001-20171121-000001

Tag Creation Date: 21/11/2017
 Toolkit Version: V3.0 (Build205B)

Remote Seal System

Transmitter Model:	3051CD2F22A1AS2M5B4E2Q4		
Calibration:	0%	100%	Span
	-865,464982	-336,403343	529,061638
			Units
			mmH2O@4C

Remote Seals

	High Pressure Side	Low Pressure Side
Model Number:	1199DAB59AFCWG4DAA9H	1199DAB59AFCWG4DAA9H
Fill Fluid:	Syltherm XLT	Syltherm XLT
Capillary Length:	4998,7	4998,7
UOM:	mm	mm
Seal Type:	FCW	FCW

Operating Conditions

Process Pressure

Minimum:	3873
Maximum:	3873
Design:	4837
Units:	kPa-g

Temperature

Design:	65
Units:	C

Temperature

	High Pressure Side				Low Pressure Side			
	Min	Max	LZA	Units	Min	Max	LZA	Units
Ambient Temperature:	15	35	30	C	15	35	30	C
Process Temperature:	-28	-28	-28	C	-28	-28	-28	C

LZA = Last Zero Adjust

Installation

Vertical Distance from Bottom of Vessel

Transmitter (T):	800
High Pressure Side Fitting (S1):	400
Low Pressure Side Fitting (S2):	1420
Distance Between Fittings (D2):	1020

UOM:	mm
UOM:	mm
UOM:	mm
UOM:	mm

Specific Gravity

High Pressure Side Fill Fluid:	0,85
Low Pressure Side Fill Fluid:	0,85
Process Fluid:	0,53

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Ambient Performance Graph Report



Tag Name: LIT-006
 Service: VASO DE CARGA
 Project Number: (NIVEL UTGCA):001-20171121-000001

Date: 21/11/2017
 Version: V3.0 (Build205B)

Transmitter Model Number:	3051CD2F22A1AS2M5B4E2Q4
High Pressure Side Remote Seal Model Number:	1199DAB59AFCWG4DAA9H
Low Pressure Side Remote Seal Model Number:	1199DAB59AFCWG4DAA9H

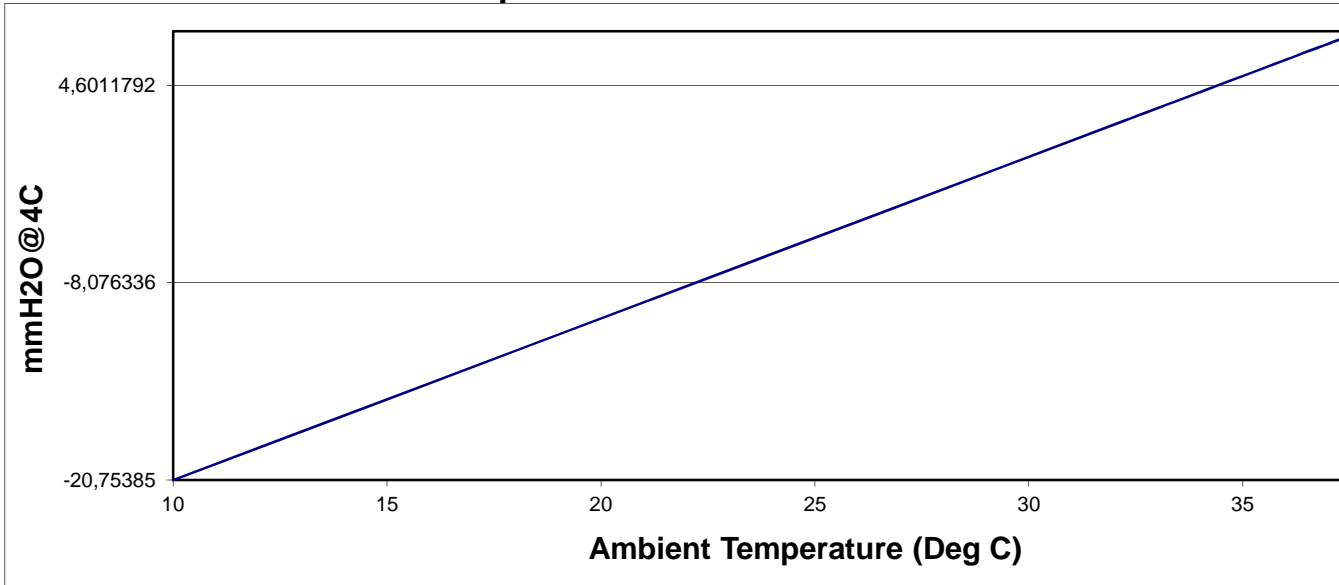
Temperature

High Pressure Side		
Ambient	Process	Units
30,00	-28,00	C
15,00	-28,00	C
35,00	-28,00	C

Last Zero Adjust
 Minimum
 Maximum

Low Pressure Side		
Ambient	Process	Units
30,00	-28,00	C
15,00	-28,00	C
35,00	-28,00	C

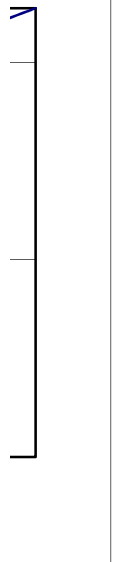
Ambient Error at Process Temperature



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SON

-28.00C



21/11/2017

Standard Performance Table Report



Tag Number: LIT-006
 Service: VASO DE CARGA
 Project Number: (NIVEL UTGCA):001-20171121-000001

Date: November 21, 2017
 Version: V3.0 (Build205B)

Transmitter Model Number: 3051CD2F22A1AS2M5B4E2Q4
 High Pressure Side Remote Seal: 1199DAB59AFCWG4DAA9H
 Low Pressure Side Remote seal: 1199DAB59AFCWG4DAA9H

	0%	100%	Span	Units
Calibration:	-865.465	-336.403	529.062	mmH2O@4C

Maximum Working Pressure (MWP): 0 kPa-g

System Time Response

	Last Zero Adjust	At Min Temps	At Max. Temps.	
63.2% value (one time constant in seconds)	1.129	1.295	1.051	seconds

Remote Seal Temperature Effects

	At Minimum Temperatures		At Maximum Temperatures	
	% of Span	mmH2O@4C	% of Span	mmH2O@4C
Seal Temperature Effects:	0.000	0.000	0.000	0.000
Head Temperature Effects:	-2.942	-15.565	0.981	5.188
Total Remote Seal Temperature Effects:	-2.942	-15.565	0.981	5.188

Transmitter Total Probable Error

	At Minimum Temperatures		At Maximum Temperatures	
	% of Span	mmH2O@4C	% of Span	mmH2O@4C
Transmitter Total Probable Error (+/-):	0.165	0.873	0.194	1.026

Total System Error

	At Minimum Temperatures		At Maximum Temperatures	
	% of Span	mmH2O@4C	% of Span	mmH2O@4C
Total System Error (nominal):	-2.942	-15.565	0.981	5.188
Tolerance (+/-):	1.929	10.207	1.292	6.833

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Performance Graphs Report



Tag Name: LIT-006

Service VASO DE CARGA

Project Name: (NIVEL UTGCA):001-20171121-000001

Tag Creation Date: 21/11/2017

Toolkit Version: V3.0 (Build205B)

Transmitter Model Number:	3051CD2F22A1AS2M5B4E2Q4
High Pressure Side Remote Seal Model Number:	1199DAB59AFCWG4DAA9H
Low Pressure Side Remote Seal Model Number:	1199DAB59AFCWG4DAA9H

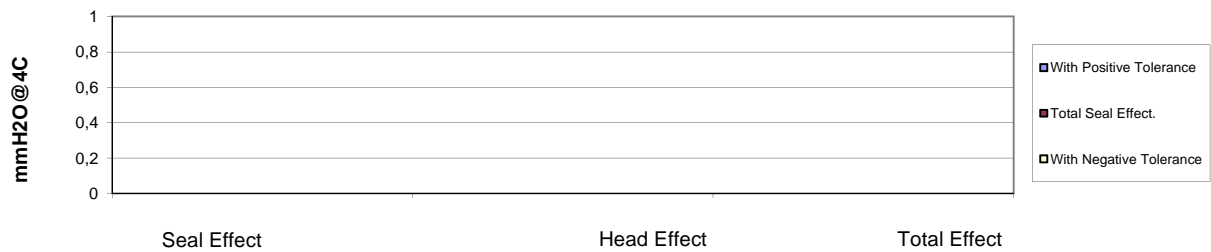
	0%	100%	Span	Units
Calibration:	-865,465	-336,403	529,062	mmH2O@4C

Maximum Working Pressure (MWP) UOM:

Remote Seal Temperature Effects at Minimum Conditions

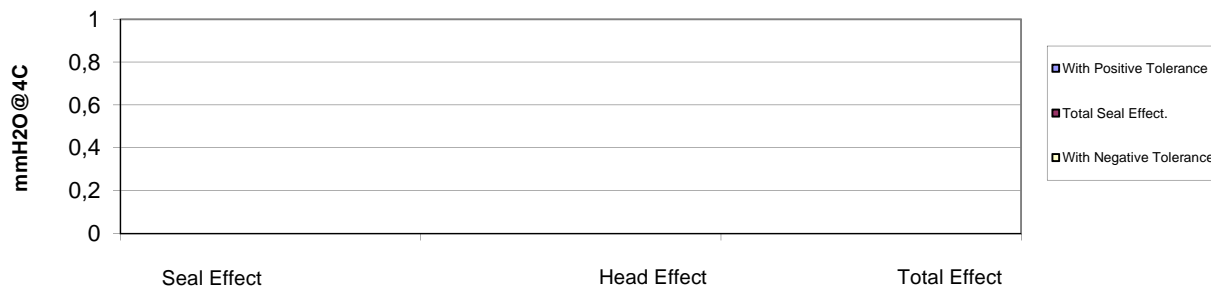
(-28.00 C)

Selected Capillary I.D.



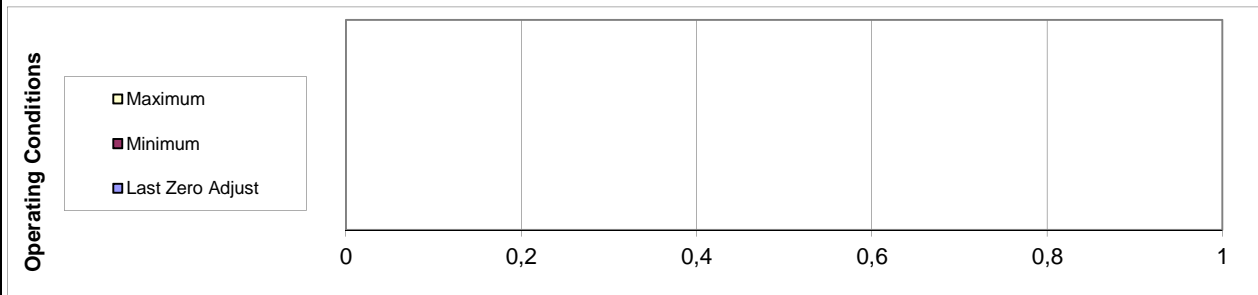
Remote Seal Temperature Effects at Maximum Conditions

(-28.00 C)



Remote Seal System Time Response

(63.2 % value)



Notes

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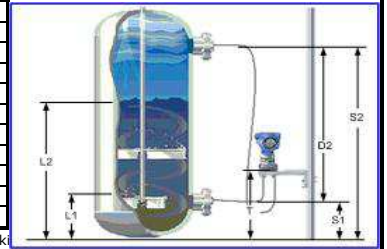
Toolkit Version: V3.0 (Build205B)

Printed: 21/11/2017

Fittings Report



Tag Number:	LIT-006	Date:	21/11/2017
Service:	VASO DE CARGA	Customer:	
Process Description:		Project Number:	(NIVEL UTGCA):001-20171121-000001
Application type	Level (closed vessel)		
Measurement type	Differential		
High pressure side configuration	Remote seal w/ capillary		
Low pressure side configuration	Remote seal w/ capillary		
High pressure side fitting (S1)	400.00	mm	
Low pressure side fitting (S2)	1420.00	mm	
Transmitter (T)	800.00	mm	
Minimum level (L1)	400.00	mm	
Maximum level (L2)	1400.00	mm	
Distance between taps (D2)	1020.00	mm	



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